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3. The third part of the paper discusses the results of the study. It includes a description of the findings and a discussion of the implications of the findings.

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Stimulatory GTP-binding regulatory protein; Erythrocyte membranes; Alcoholics (Nakamura, J. (215) 1)

Acute intermittent porphyria; Porphyria; Porphyria variegata; Hereditary coproporphyria; Porphobilinogen deaminase; Heme synthesis; Drugs; Estrogen; Progesterone; Gene; Chromosome; mRNA; Mutation (Hindmarsh, J.T. (217) 29)

Alcoholics; Stimulatory GTP-binding protein; Gs; Erythrocyte (Nakamura, J. (218) 229)

Alkaline phosphatase

Glycan phosphatidylinositol anchors; Glycan phosphatidylinositol-specific phospholipase D; Gradient gel electrophoresis; Partitioning (Raymond, F.D. (215) 139)

Osteosarcoma; Transcription levels; Isoenzyme (Stinson, R.A. (221) 105)

Allergic reactions

Tetanus; Tetanus immunity; Booster immunization; Knowledge-based systems (Schröder, J.P. (222) 79)

Alpha-1-acid glycoprotein

Inflammation; Oligosaccharide; Glycoform; Rats (Venembre, P.C. (221) 59)

Alpha-1-antitrypsin

Occult blood; Protein-losing enteropathies (Moran, A. (217) 153)

Amino acids

Vigabatrin; Beta alanine; Gamma amino butyric acid (Preece, M.A. (218) 113)

Aminopeptidase-N

Alanine-aminopeptidase; Leucine-aminopeptidase; Serum; Plasma; gp150; CD13 (Favaloro, E.J. (220) 81)

Amniotic fluid

Insulin-like growth factor-binding protein; Phosphorylation; Pregnancy; Decidua; (Koistinen, R. (215) 189)

Trehalase isozymes; Fetal pathologies; Prenatal diagnosis; Anal imperforation; Polycystic kidney disease (Elsiger, M.-A. (216) 91)

Insulin-like growth factor binding protein-1; Fetal fibronectin; Rupture of fetal membranes (Rutanan, E.-M. (214) 73)

Amplification refractory mutation system analysis

Apolipoprotein E; Genotype/phenotype; Polymerase chain reaction using allele-specific oligonucleotide; Diabetes mellitus (Stavljenic-Rukavina, A. (216) 191)

Amplification

myc oncogenes; Transcriptional regulation (Koskinen, P.J. (217) 57)

Amylase

Alcohol misuse; Alcoholic liver disease; Isoenzymes; Cirrhosis; Salivary gland disease (Deenmamode, J.M.J. (223) 169)

Amyloid enhancing factor

Ubiquitin; β_2 -Microglobulin amyloidosis; Dialysis patients; Plasma concentration (Okada, M. (220) 135)

Anaemia

Erythropoietin; Liver disease; Inflammation; (Pirisi, M. (219) 47)

Anal imperforation

Trehalase isozymes; Fetal pathologies; Prenatal diagnosis; Polycystic kidney disease; Amniotic fluid; (Elsiger, M.-A. (216) 91)

Analysis

Mucopolysaccharidoses; Urine; Glycosaminoglycans; Electrophoresis (Piraud, M. (221) 171)

Analytical quality goals

Clinical quality specifications; Quality specifications for clinical laboratories; Quality assurance; Measurement procedure; Transferability of clinical laboratory results (Groth, T. (222) 129)

Angiogenesis

Rheumatoid arthritis; Synovial fluids; Enzyme immunoassay; Gliostatin; Platelet-derived endothelial cell growth factor (Asai, K. (218) 1)

Angiopathy

Malondialdehyde; Lipid peroxidation; Type 1 diabetes mellitus; Type 2 diabetes mellitus (Gallou, G. (214) 227)

Anhydrides of argininosuccinate

Argininosuccinic aciduria; Metabolic disorders; Nuclear magnetic resonance; Urea cycle (Burns, S.P. (221) 1)

Antibodies

Streptokinase; Immunoassay; ELISA; Myocardial infarction (Bom, V.J.J. (218) 121)

Antioxidants

Rat; Inflammation; Carrageenan-induced granuloma; Lipid peroxidation; Iron; Oxygen radicals (Muntané, J. (214) 185)

Reactive oxygen; Cytosolic calcium; Endothelial cells (David, M. (223) 1)

Antitrypsin Pittsburgh

Circulating proalbumin; Hepatic convertase (Brennan, S.O. (214) 123)

Anti-HCV positive chronic liver diseases

Serum type IV collagen; Enzyme immunoassay; 7S and triple helix (Matsuzaki, Y. (221) 209)

 α_1 -Antitrypsin

Microheterogeneity; Serum; Meconium; Cystic fibrosis; Immunoaffinoelectrophoresis (Duthel, S. (215) 173)

Apo B gene

Restriction fragment length polymorphism; Hypercholesterolaemia (Series, J.J. (215) 89)

Apo B

LDL cholesterol; VLDL cholesterol; Non-HDL cholesterol; HDL cholesterol; Triglycerides (Levinson, S.S. (223) 31)

Apolipoprotein B

DNA polymorphism; Signal sequence (Gaffney, D. (218) 131)

Malondialdehyde adducts; Fragmentation; Human plasma; Artherosclerosis; Lipid peroxidation (Lecomte, E. (218) 39)

Apolipoprotein E

Genotype/phenotype; Polymerase chain reaction using allele-specific oligonucleotide; Amplification refractory mutation system analysis; Diabetes mellitus (Stavljenic-Rukavina, A. (216) 191)

Apolipoproteins

Lipoproteins; Insulin therapy; Triglycerides (Reverter, J.L. (223) 113)

Apolipoprotein(a) (apo(a))

Lipoprotein(a) (Lp(a)); Apo(a) isoforms; Apo(a) alleles; Apo(a) phenotypes (Abe, A. (219) 149)

Apoproteins

Triglycerides; Cholesterol; Lipoproteins; Atherosclerosis (Manzato, E. (219) 57)

Apo(a) alleles

Lipoprotein(a) (Lp(a)); Apolipoprotein(a) (apo(a)); Apo(a) isoforms; Apo(a) phenotypes (Abe, A. (219) 149)

Apo(a) isoforms

Lipoprotein(a); Immunoblotting (Geroldi, D. (221) 159)

Lipoprotein(a) (Lp(a)); Apolipoprotein(a) (apo(a)); Apo(a) alleles; Apo(a) phenotypes (Abe, A. (219) 149)

Apo(a) phenotypes

Lipoprotein(a) (Lp(a)); Apolipoprotein(a) (apo(a)); Apo(a) isoforms; Apo(a) alleles; (Abe, A. (219) 149)

Arachidonic acid metabolism

Peroxisomal disease fibroblasts; Eicosanoids; Gas chromatography/mass spectrometry (Malle, E. (217) 205)

Argininosuccinic aciduria

Anhydrides of argininosuccinate; Metabolic disorders; Nuclear magnetic resonance; Urea cycle (Burns, S.P. (221) 1)

Artherosclerosis

Apolipoprotein B; Malondialdehyde adducts; Fragmentation; Human plasma; Lipid peroxidation (Lecomte, E. (218) 39)

Ascorbate

Vitamin C; Uric acid; Cerebrospinal fluid (CSF); Serum; CSF low; Blood-CSF barrier function; Neurological diseases (Reiber, H. (217) 163)

Asialotransferrin

Alcohol abuse; Carbohydrate-deficient transferrin (CDT); Isoelectric focusing (IEF); Immunofixation; Transaminases (Löf, K. (217) 175)

Asthma

Oxidative metabolism; Lipid peroxidation; Zinc; Selenium (Malvy, J.-M.D. (218) 117)

Atherosclerosis

Lipoprotein(a); Enzyme immunoassay; Immunoradiometric assay; Plasminogen (März, W. (214) 153)

Low density lipoprotein (LDL); Modified lipoprotein; Sialic acid (Ruelland, A. (221) 127)

Triglycerides; Cholesterol; Lipoproteins; Apoproteins (Manzato, E. (219) 57)

Atomic absorption spectrometry

Bone; Teeth; Mineral elements; Digestion procedure (Gil, F. (221) 23)

ATP

Microcalorimetry; Human erythrocytes; Cationophore; Lactate; Mg^{2+} (Engström, I. (219) 113)

Atrial natriuretic peptide

Stability; Storage (Bhaggoe, U.M. (223) 179)

Autoanalysis

Phenylketonuria; Dietary monitoring; L-Phenylalanine; Phenylalanine dehydrogenase; Chemistry; Clinical (Taylor, R.P. (218) 207)

Autoantibodies

Autoantigen; Muscle; Age; Laurylsulphate,

sodium salt-polyacrylamide-gel-electrophoresis;
Western blot (Zimmermann, C.W. (218) 29)

Autoantibody

Pancreatic elastase 1; Radioimmunoassay
(Asada, H. (218) 17)

Autoantigen

Autoantibodies; Muscle; Age; Laurylsulphate,
sodium salt-polyacrylamide-gel-electrophoresis;
Western blot (Zimmermann, C.W. (218) 29)

Autoimmune thyroid disease

Interleukin-4; Radioimmunoassay; Human
peripheral blood mononuclear cells; Graves'
disease; Chronic thyroiditis (Hirooka, Y. (216) 1)

Automated analysis

Smoking; Cotinine determination; 'König' reac-
tion; Fluorescence polarization immunoassay
(Pickert, A. (217) 143)

B

Band 3 protein

G6PD deficiency; PK deficiency; Hereditary spherocytosis (human erythrocytes) (Giuliani, A. (220) 211)

Bathocuproine

Protein assay; Reverse biuret method; Copper; Chelate reaction (Matsushita, M. (216) 103)

Bayes' theorem

Laboratory computer; Knowledge-based system; Expert system; Interval arithmetics; Set theory; Syntax analysis; Probability theory; Possibility theory (Pohl, B. (222) 85)

Beta alanine

Vigabatrin; Amino acids; Gamma amino butyric acid (Preece, M.A. (218) 113)

Bile acids

Fluorescence labeling; High performance liquid chromatography (Gütuna, S. (214) 195)

Serum; Liver cirrhosis (Greco, A.V. (221) 183)

Mevalonate kinase deficiency; Chenodeoxycholic acid; Cholic acid; Gas-chromatography-mass spectrometry; Stable-isotope; Cholesterol (Gibson, K.M. (217) 217)

Bilirubin toxicity

PKC inhibition; Protein phosphorylation; Fibroblasts (Amit, Y. (223) 102)

Biological marker

Urinary modified nucleosides; Half-life of RNA; RNA turnover; Cancer; AIDS (Nakano, K. (218) 169)

Biological variation

Chronobiology; Data management (Fuentes-Arderiu, X. (214) 113)

Biopterin

Hyperphenylalaninemia; Neopterin; Tetrahydrobiopterin deficiency (Ponzzone, A. (216) 63)

Biotinidase (Biocytinase)

Human serum; HPLC assay; Kinetic study (Oizumi, J. (215) 63)

Biotin-avidin

Theophylline; Turbidimetric immunoassay (Oh, C. (218) 59)

Birthweight

Cigarette-smoking; Fluorescent lipid peroxidation products; Maternal plasma; Cord plasma (Pré, J. (215) 221)

Bismuth

Inductively coupled plasma mass spectrometry (ICPMS); lead; Thallium; Plasma; Urine (Mauras, Y. (218) 201)

Human serum; Colloidal bismuth subcitrate; Inductively coupled plasma-mass spectrometry (ICP-MS) (Vanhoe, H. (219) 79)

Blood cells

LDH isoenzymes; Histiocytosis X; Lymphocytes; Monocytes (Perlino, E. (223) 83)

Blood gas analysis

Gastric acidity determination; Gastric acid; Acid-base equilibrium (Niv, Y. (215) 9)

Blood neutrophils

Isoenzymes; Characterization; Down's syndrome; Early placental variant (Vergnes, H.A. (218) 105)

Blood oxygen saturation

Mixing technique (Clark, D.J. (219) 189)

Blood spots

Maple syrup urine disease; Neonatal screening; Leucine dehydrogenase; Enzymatic analysis; Branched-chain amino acids (Wendel, U. (219) 105)

Blood-CSF barrier function

Vitamin C; Ascorbate; Uric acid; Cerebrospinal fluid (CSF); Serum; CSF flow; Neurological diseases (Reiber, H. (217) 163)

Blood

Ethanol; Fucose; Haptoglobin; Lectin; Liver disease (Chambers, W. (219) 177)

Bone resorption

Urokinase-type plasminogen activator (u-PA); Urokinase-type plasminogen activator receptor (u-PAR); Plasminogen activator inhibitor-I (PAI-I); Osteosarcoma cell (Nonaka, T. (223) 129)

Bone

Teeth; Atomic absorption spectrometry; Mineral elements; Digestion procedure (Gil, F. (221) 23)

Booster immunization

Tetanus; Tetanus immunity; Allergic reactions; Knowledge-based systems (Schröder, J.P. (222) 79)

Bradford

Collagen; Protein methods; Sodium dodecyl sulfate (SDS) (López, J.M. (220) 91)

Branched-chain amino acids

Maple syrup urine disease; Neonatal screening; Leucine dehydrogenase; Enzymatic analysis; Blood spots (Wendel, U. (219) 105)

Breast cancer

Epidermal growth factor; Epidermal growth factor receptor; Lung cancer; Endometrial cancer (Bolufer, P. (215) 51)

Tamoxifen; Serum cholesterol; Serum lipoproteins; Cardiovascular risk (Dnistrian, A.M. (223) 43)

Mutations; P53 gene; NM23 gene (Callahan, R. (217) 63)

Bronchoalveolar lavage fluid

Secretory IgA; Serum IgA; Enzyme immunoassay methods; Interstitial lung disease (Sato, T. (220) 145)

Bronchopulmonary dysplasia

Platelet activating factor; Patent ductus arteriosus; Chronic lung disease; Tracheal aspirate; Low birth weight infant (Koyama, N. (215) 73)

Butyrylcholinesterase

Acetylcholinesterase; Cerebrospinal fluid; Meningitis; Hydrocephaly; Ventriculitis (Tornel, P.L. (214) 219)

C

c-erbB-2

t(14; 18) chromosomal rearrangement; Follicular lymphoma; Mammary carcinoma; N-myc; Neuroblastoma; K-ras; Pulmonary adenocarcinoma; Colorectal carcinoma (Werner, M. (217) 39)

Calcitonin

Radioimmunoassay; Hormones; Peptides; Peptide hormones; Regulatory peptides (Schifter, S. (215) 99)

Calcitriol

Fructose-1,6-diphosphatase deficiency; Monocytes; Lymphocytes; Tissue culture (Kikawa, Y. (215) 81)

Extrelut-1-minicolumns; Sep-Pak silica cartridges; Scintillation proximity assay; Vitamin D metabolites (Wildermuth, S. (220) 61)

Calcium oxalate crystallization

Turbidity; Nephelometry; Nucleation; Kinetics; Nucleation promoters (Rodgers, A.L. (220) 125)

Cancer patients

Fibronectin; Fragments; Monoclonal antibodies; Urine (Katayama, M. (217) 115)

Cancer

Vanillylmandelic acid; Homovanillic acid; Neuroblastoma screening (Mathieu, P. (220) 229)

Urinary modified nucleosides; Biological marker; Half-life of RNA; RNA turnover; AIDS (Nakano, K. (218) 169)

Carbohydrate chain

α -Fetoprotein; Tumor marker; Lectin electrophoresis; Hepatocellular carcinoma; *Lens culinaris* agglutinin-A; Erythro-agglutinating phytohemagglutinin-E4 (Shimizu, K. (214) 3)

Carbohydrate-deficient transferrin (CDT)

Alcohol abuse; Asialotransferrin; Isoelectric focusing (IEF); Immunofixation; Transaminases (Löf, K. (217) 175)

Carcinoid

HPLC; Fluorometry; Serotonin; 5-Hydroxyindole-3-acetic acid; 5-Hydroxytryptophan; Tryptophan; Urine; Plasma; Platelets; Tissue; Diurnal variation; Diet (Kema, I.P. (221) 143)

Carcinoma marker

Tenascin; Enzyme immunoassay (Washizu, K. (219) 15)

Cardiac index

Cardiomyopathy; Copper; Zinc; Iron; Ejection fraction (Oster, O. (214) 209)

Cardiomyopathy

Copper; Zinc; Iron; Ejection fraction; Cardiac index (Oster, O. (214) 209)

Cardiovascular risk

Breast cancer; Tamoxifen; Serum cholesterol; Serum lipoproteins (Dnistrian, A.M. (223) 43)

Carnitine

Acylcarnitine; High-performance liquid chromatography (Poorthuis, B.J.H. (216) 53)

Carrageenan-induced granuloma

Rat; Inflammation; Antioxidants; Lipid peroxidation; Iron; Oxygen radicals (Muntané, J. (214) 185)

CASA

Mucin; Tumour-associated antigen; Normal range (McGuckin, M.A. (214) 139)

Ca-ionophore

Microcalorimetry; Human erythrocytes; ATP; Lactate; Mg^{2+} (Engström, I. (219) 113)

CD13

Alanine-aminopeptidase; Leucine-aminopeptidase; Aminopeptidase-N; Serum; Plasma; gp150 (Favaloro, E.J. (220) 81)

Cerebrospinal fluid (CSF)

Acetylcholinesterase; Butyrylcholinesterase; Meningitis; Hydrocephaly; Ventriculitis (Tornel, P.L. (214) 219)

Ferritin; Enzyme-linked immunosorbent assay; Clinical findings (Keir, G. (216) 153)

Vitamin C; Ascorbate; Uric acid; Serum; CSF flow; Blood-CSF barrier function; Neurological diseases (Reiber, H. (217) 163)

Immunoglobulin G; Dopamine; Psychotic patients (Bergquist, J. (217) 129)

Glutamine; *O*-Phthalaldehyde; Chromatography; Plasma (Teerlink, T. (218) 159)

Methotrexate; 2,4-Diamino-7-hydroxy-pteridines; Leukemia; Plasma (Dhondt, J.L. (220) 189)

Characterization

Blood neutrophils; Isoenzymes; Down's syndrome; Early placental variant (Vergnes, H.A. (218) 105)

Chelate reaction

Protein assay; Reverse biuret method; Copper; Bathocuproine (Matsushita, M. (216) 103)

Chemiluminescent immunoassay

Human granulocyte colony-stimulating factor; Glucose oxidase; Infectious diseases (Kiriya, R. (220) 201)

Chemistry

Phenylketonuria; Dietary monitoring; L-Phenylalanine; Phenylalanine dehydrogenase; Autoanalysis; Clinical (Taylor, R.P. (218) 207)

Chenodeoxycholic acid

Mevalonate kinase deficiency; Bile acid; Cholic acid; Gas-chromatography-mass spectrometry; Stable-isotope; Cholesterol (Gibson, K.M. (217) 217)

Children

Trace metals; Diabetes mellitus (Rohn, R.D. (215) 21)

Cholelithiasis

Lipid peroxidation; Obstructive jaundice (Tsai, L.-Y. (215) 41)

Cholestan-3 β ,5 α ,6 β -triol

Vitamin E; Tumor necrosis factor- α ; Linoleic acid; Elastase-like activity; Endothelial cells (Toborek, M. (215) 201)

Cholesterol

Mevalonate kinase deficiency; Bile acid; Chenodeoxycholic acid; Cholic acid; Gas-chromatography-mass spectrometry; Stable-isotope (Gibson, K.M. (217) 217)

Lipid; Stomach; Triglyceride; Xanthoma (Chang, F.-Y. (217) 233)

Microalbumin; Triglyceride; Non-insulin-dependent diabetes mellitus (Shimizu, H. (221) 191)

Triglycerides; Lipoproteins; Apoproteins; Atherosclerosis (Manzato, E. (219) 57)

Cholesteryl ester transfer protein

Lipoprotein lipase deficiency; Hyperchylomicronemia; Hypertriglyceridemia; HDL; VLDL (Iglesias, A. (221) 73)

Cholic acid

Mevalonate kinase deficiency; Bile acid; Chenodeoxycholic acid; Gas-chromatography-mass spectrometry; Stable-isotope; Cholesterol (Gibson, K.M. (217) 217)

Chromatofocusing

hCG; Isoforms; Down's syndrome (Defasque, P. (223) 173)

Chromatography

Glutamine; *O*-Phthalaldehyde; Plasma; Cerebrospinal fluid (Teerlink, T. (218) 159)

Chromosome

Acute intermittent porphyria; Porphyria; Porphyria variegata; Hereditary coproporphyria; Porphobilinogen deaminase; Heme synthesis; Alcohol; Drugs; Estrogen; Progesterone; Gene; mRNA; Mutation (Hindmarsh, J.T. (217) 29)

Chronic granulomatous disease

Tetrazolium salts; Respiratory burst; Free oxygen radicals; Densitometry; Polymorphonuclear leukocytes (Iacobini, M. (221) 197)

Chronic lung disease

Platelet activating factor; Patent ductus arteriosus; Bronchopulmonary dysplasia; Tracheal aspirate; Low birth weight infant (Koyama, N. (215) 73)

Chronic thyroiditis

Interleukin-4; Radioimmunoassay; Autoimmune thyroid disease; Human peripheral blood mononuclear cells; Graves' disease (Hirooka, Y. (216) 1)

Chronobiology

Biological variation; Data management (Fuentes-Arderiu, X. (214) 113)

Chylomicron remnant

Remnant-like particles (RLP); RLP-cholesterol; VLDL remnant; Familial dysbetalipoproteinemia; Coronary heart disease (Nakajima, K. (223) 53)

Cigarette-smoking

Birthweight; Fluorescent lipid peroxidation products; Maternal plasma; Cord plasma (Pré, J. (215) 221)

Circulating proalbumin

Antitrypsin Pittsburgh; Hepatic convertase (Brennan, S.O. (214) 123)

Cirrhosis

Alcohol misuse; Alcoholic liver disease; Amylase; Iso-enzymes; Salivary gland disease (Deenmamode, J.M.J. (223) 169)

CK-MB activity

CK-MB mass concentration; Ratio CK-MB mass vs. activity; Acute myocardial infarction (Baum, H.H.E. (219) 183)

CK-MB mass concentration

CK-MB activity; Ratio CK-MB mass vs. activity; Acute myocardial infarction (Baum, H.H.E. (219) 183)

Client-server architecture

Laboratory information system; Graphical user interface; Object-oriented design; Ethernet network (Wells, I.G. (222) 13)

Clinical evaluation

Testosterone; SHBG; Coated tube radioimmunoassay; Polycystic ovary syndrome (Holownia, P. (214) 31)

Clinical findings

Ferritin; Cerebrospinal fluid; Enzyme-linked immunosorbent assay (Keir, G. (216) 153)

Clinical laboratory information systems

Decision support systems; Knowledge bases; Medical informatics computing methodologies; Interoperability; Cooperative architectures (Boran, G.P. (222) 23)

Decision support systems; Knowledge based system; Standards (Johansson, B. (222) 123)

Electronic data interchange; Computer communication networks; Primary health care (Bergvin, L. (222) 141)

Guidelines; Standards; Ireland (Kenny, D. (222) 147)

Clinical laboratory services

Post-analytical functionalities; Primary care; In-

tensive care; Interpretative reporting; Alarms generation (Nykänen, P. (222) 37)

Clinical laboratory

Computing; Object; Object-orientation (Solberg, H.E. (222) 3)

Clinical quality specifications

Analytical quality goals; Quality specifications for clinical laboratories; Quality assurance; Measurement procedure; Transferability of clinical laboratory results (Groth, T. (222) 129)

Clinical

Phenylketonuria; Dietary monitoring; L-Phenylalanine; Phenylalanine dehydrogenase; Autoanalysis; Chemistry (Taylor, R.P. (218) 207)

Coated tube radioimmunoassay

Testosterone; SHBG; Clinical evaluation; Polycystic ovary syndrome (Holownia, P. (214) 31)

Collagen

Bradford; Protein methods; Sodium dodecyl sulfate (SDS) (López, J.M. (220) 91)

Colloidal bismuth subcitrate

Bismuth; Human serum; Inductively coupled plasma-mass spectrometry (ICP-MS) (Vanhoe, H. (219) 79)

Colorectal carcinoma

t(14; 18) chromosomal rearrangement; Follicular lymphoma; *c-erbB-2*; Mammary carcinoma; *N-myc*; Neuroblastoma; *K-ras*; Pulmonary adenocarcinoma (Werner, M. (217) 39)

Computer communication networks

Electronic data interchange; Clinical laboratory information systems; Primary health care (Bergvin, L. (222) 141)

Computer programs

Data reduction; Serological assay; Lyme testing; Statistical evaluation of assays (Sorensen, K. (214) 55)

Computing

Clinical laboratory; Object; Object-orientation (Solberg, H.E. (222) 3)

Cooperative architectures

Decision support systems; Knowledge bases; Clinical laboratory information systems; Medical informatics computing methodologies; Interoperability (Boran, G.P. (222) 23)

Copper

Cardiomyopathy; Zinc; Iron; Ejection fraction; Cardiac index (Oster, O. (214) 209)

Protein assay; Reverse biuret method; Bathocuproine; Chelate reaction (Matsushita, M. (216) 103)

Cord plasma

Cigarette-smoking; Birthweight; Fluorescent lipid peroxidation products; Maternal plasma (Pré, J. (215) 221)

Coronary heart disease

High density lipoprotein; HDL_{2b}; Coronary protection (Wilson, H.M. (220) 175)

Lp(a) serum concentration; Familial combined hyperlipidemia (Fonda, M. (223) 121)

Remnant-like particles (RLP); RLP-cholesterol; VLPL remnant; Chylomicron remnant; Familial dysbetalipoproteinemia (Nakajima, K. (223) 53)

Coronary protection

High density lipoprotein; HDL_{2b}; Coronary heart disease (Wilson, H.M. (220) 175)

Cotinine determination

Smoking; 'König' reaction; Fluorescence polarization immunoassay; Automated analysis (Pickert, A. (217) 143)

C-reactive protein

Immunoglobulins; Acute-phase proteins; Macroglobulinemia; Latex reagent (Ponge, T.D. (220) 101)

CSF flow

Vitamin C; Ascorbate; Uric acid; Cerebrospinal fluid (CSF); Serum; Blood-CSF barrier function; Neurological diseases (Reiber, H. (217) 163)

Cultured fibroblasts

Glutaric aciduria type 1; Glutaryl-CoA dehydrogenase; Tritium release (Christensen, E. (220) 71)

CuZn-SOD

Mn-SOD; ELISA; Strenuous exercise; Serum (Ohno, H. (215) 213)

Cystic fibrosis transmembrane conductance regulator (CFTR)

Cystic fibrosis; Genetic disease; Genotype-phenotype association; Mutation analysis (Tümmler, B. (217) 23)

Cystic fibrosis

Microheterogeneity; α_1 -Antitrypsin; Serum; Meconium; Immunoaffinoelectrophoresis (Duthel, S. (215) 173)

Cystic fibrosis transmembrane conductance regulator (CFTR); Genetic disease; Genotype-phenotype association; Mutation analysis (Tümmler, B. (217) 23)

Cytosolic calcium

Reactive oxygen; Endothelial cells; Antioxidants (David, M. (223) 1)

Cytotrophoblast

Iron; Transferrin receptor; Placenta (Starreveld, J.S. (220) 47)

D

Daidzein

Isoflavonoids; Genistein; Equol (Kelly, G.E. (223) 9)

Data management

Chronobiology; Biological variation (Fuentes-Arderiu, X. (214) 113)

Data reduction

Serological assay; Lyme testing; Computer programs; Statistical evaluation of assays (Sorensen, K. (214) 55)

Database collection

Thyroid function assessment; Epidemiology; Decision support systems (Nolan, J. (222) 117)

Database management

Databases; Knowledge-based systems; Expert systems (Grimson, J.B. (222) 101)

Databases

Database management; Knowledge-based systems; Expert systems (Grimson, J.B. (222) 101)

***n*-Decanoic acid**

Medium chain triglycerides; Medium chain fatty acids; Gas-liquid chromatography; *n*-Octanoic acid (Mingrone, G. (214) 21)

Decidua

Insulin-like growth factor-binding protein; Phosphorylation; Pregnancy; Amniotic fluid (Koi-stinen, R. (215) 189)

Decision support systems

Knowledge based system; Standards; Clinical laboratory information systems (Johansson, B. (222) 123)

Knowledge bases; Clinical laboratory information systems; Medical informatics computing methodologies; Interoperability; Cooperative architectures (Boran, G.P. (222) 23)

Thyroid function assessment; Database collection; Epidemiology (Nolan, J. (222) 117)

Densitometry

Chronic granulomatous disease; Tetrazolium salts; Respiratory burst; Free oxygen radicals; Polymorphonuclear leukocytes (Iacobini, M. (221) 197)

Deoxyribonuclease

Human semen; Purification; Multiplicity; Prostate (Yasuda, T. (218) 5)

Diabetes and pregnancy

Insulin binding; Insulin receptors; Erythrocytes; Pregnancy; Gestational diabetes (Schmon, B. (21) 33)

Diabetes mellitus (complications)

Lipoprotein(a) (Ritter, M.M. (214) 45)

Apolipoprotein E; Genotype/phenotype; Polymerase chain reaction using allele-specific oligonucleotide; Amplification refractory mutation system analysis (Stavljenic-Rukavina, A. (216) 191)

Trace metals; Children (Rohn, R.D. (215) 21)

Urinary growth hormone (Turner, G. (220) 19)

Very low density lipoprotein; Lipoprotein lipase; Metabolites (Saheki, S. (217) 105)

Diabetes

Non-enzymatic glycosylation; Glycation; Impairment of immunoreactivity (Sasaki, Y. (220) 119)

Glycated apolipoprotein A-I; Site of glycation (Calvo, C. (217) 193)

Diabetic nephropathy

β -Hexosaminidase; Insulin-dependent diabetes mellitus (Romero, K.M. (216) 125)

Diacylglycerol

Monoacylglycerol; Triacylglycerol; Heparin; Lipoprotein lipase; Plasma (Fielding, B.A. (216) 167)

Diagnosis

Inborn error; Genotype (Hill, R.E. (217) 3)

Dialysis patients

Ubiquitin; β_2 -Microglobulin amyloidosis; Amyloid enhancing factor; Plasma concentration (Okada, M. (220) 135)

2,4-Diamino-7-hydroxy-pteridines

Methotrexate; Leukemia; Plasma; Cerebrospinal fluid (Dhondt, J.L. (220) 189)

Dietary monitoring

Phenylketonuria; L-Phenylalanine; Phenylalanine dehydrogenase; Autoanalysis; Chemistry; Clinical (Taylor, R.P. (218) 207)

Diethylstilbestrol

Prostatic cancer; Radioimmunoassay; Radioiodination; Steroids (Economou, E.V. (216) 81)

Diet

HPLC; Fluorometry; Serotonin; 5-Hydroxyindole-3-acetic acid; 5-Hydroxytryptophan; Tryptophan; Urine; Plasma; Platelets; Tissue; Carcinoid; Diurnal variation (Kema, I.P. (221) 143)

Differential centrifugation

Microsomes; Myometrium; P450IA1; Gel-filtration (Lamminen, S. (214) 93)

Digestion procedure

Bone; Teeth; Atomic absorption spectrometry; Mineral elements (Gil, F. (221) 23)

Digoxin

Fab fragments; Poisoning (Bizzaro, N. (217) 225)

5,6-Dihydrouridine

N⁶-Threoninocarbonyl adenosine; tRNA degradation; Man; Rat; Metabolic rate (Topp, H. (218) 73)

N-Dimethylthiophosphoryl methyl ester derivatives

Proline; Hydroxyproline; Urine; Gas chromatography; Flame photometric detection (Kataoka, H. (214) 13)

Distribution in a general population

N-Acetyl- β -D-glucosaminidase; Isoenzymes;

Plasma levels; Routine chromatofocusing procedure (Goi, G. (221) 47)

Diurnal variation

HPLC; Fluorometry; Serotonin; 5-Hydroxyindole-3-acetic acid; 5-Hydroxytryptophan; Tryptophan; Urine; Plasma; Platelets; Tissue; Carcinoid; Diet (Kema, I.P. (221) 143)

DNA polymorphism

Apolipoprotein B; Signal sequence (Gaffney, D. (218) 131)

DNA probes

Polymerase chain reaction (PCR); Genetic testing; Molecular testing (Garrett, C.T. (217) 85)

Dopamine

Immunoglobulin G; Psychotic patients; Cerebrospinal fluid (Bergquist, J. (217) 129)

Down's syndrome

hCG; Isoforms; Chromatofocusing (Defasque, P. (223) 173)

Blood neutrophils; Isoenzymes; Characterization; Early placental variant (Vergnes, H.A. (218) 105)

Drugs

Acute intermittent porphyria; Porphyria; Porphyria variegata; Hereditary coproporphyria; Porphobilinogen deaminase; Heme synthesis; Alcohol; Estrogen; Progesterone; Gene; Chromosome; mRNA; Mutation (Hindmarsh, J.T. (217) 29)

Dynamic test scheduling

Ethics; Laboratory Information System; Production management; Quality assurance; Telecommunication (Brender, J. (222) 57)

E

Early placental variant

Blood neutrophils; Isoenzymes; Characterization; Down's syndrome (Vergnes, H.A. (218) 105)

Eicosanoids

Peroxisomal disease fibroblasts; Arachidonic acid metabolism; Gas chromatography/mass spectrometry (Malle, E. (217) 205)

Ejection fraction

Cardiomyopathy; Copper; Zinc; Iron; Cardiac index (Oster, O. (214) 209)

Elastase-like activity

Vitamin E; Tumor necrosis factor- α ; Cholestan-3 β ,5 α ,6 β -triol; Linoleic acid; Endothelial cells (Toborek, M. (215) 201)

Electroimmunodiffusion

IgA; Secretions; Single radial immunodiffusion (Meillet, D. (214) 235)

Electronic data interchange

Test requests; Screening; Expert systems; OPENLABS (Hasman, A. (222) 49)

Computer communication networks; Clinical laboratory information systems; Primary health care (Bergvin, L. (222) 141)

Electrophoresis

Mucopolysaccharidoses; Analysis; Urine; Glycosaminoglycans (Piraud, M. (221) 171)

ELISA

Lectin; IgA subclass; Secretory IgA; Affinity chromatography (Cullina, M.J. (216) 23)

Mn-SOD; CuZn-SOD; Strenuous exercise; Serum (Ohno, H. (215) 213)

Lipoprotein(a); Quantitation; Oxidatively modified low density lipoprotein (Wang, H. (218) 97)

Streptokinase; Antibodies; Immunoassay; Myocardial infarction (Bom, V.J.J. (218) 121)

Endometrial cancer

Epidermal growth factor; Epidermal growth factor receptor; Breast cancer; Lung cancer (Bolufer, P. (215) 51)

Endothelial cells

Reactive oxygen; Cytosolic calcium; Antioxidants (David, M. (223) 1)

Vitamin E; Tumor necrosis factor- α ; Cholestan-3 β ,5 α ,6 β -triol; Linoleic acid; Elastase-like activity (Toborek, M. (215) 201)

Enzymatic analysis

Maple syrup urine disease; Neonatal screening; Leucine dehydrogenase; Branched-chain amino acids; Blood spots (Wendel, U. (219) 105)

Enzymatic assay

Inorganic phosphate (Ungerer, J.P.J. (223) 149)

Enzyme immunoassay methods

Bronchoalveolar lavage fluid; Secretory IgA; Serum IgA; Interstitial lung disease (Sato, T. (220) 145)

Enzyme immunoassay

Lipoprotein(a); Immunoradiometric assay; Plasminogen; Atherosclerosis (März, W. (214) 153)

Immunoradiometric assay; Plasminogen; Atherosclerosis (März, W. (214) 153)

Serum type IV collagen; 7S and triple helix; Anti-HCV positive chronic liver diseases (Matsuzaki, Y. (221) 209)

Leukotriene E₄; Leukotriene analysis; Extrahepatic cholestasis; Hepatobiliary elimination; High-pressure liquid chromatography (Mayatepek, E. (218) 185)

Rheumatoid arthritis; Synovial fluids; Angiogenesis; Gliostatin; Platelet-derived endothelial cell growth factor (Asai, K. (218) 1)

Tenascin; Carcinoma marker (Washizu, K. (219) 15)

Enzyme reactor

Acylcarnitines; HPLC; Acylcarnitine hydrolase (Matsumoto, K. (216) 135)

Enzymes

Liver transplantation; Acute rejection; Necrosis index (Gozzo, M.L. (214) 175)

Enzyme-linked immunoglobulin

Lactate dehydrogenase; Hydroxybutyric dehydrogenase (Taguchi, H. (220) 225)

Enzyme-linked immunosorbent assay

Extracellular-superoxide dismutase; Heparin affinity (Adachi, T. (223) 185)

Epidemiology

Thyroid function assessment; Database collection; Decision support systems (Nolan, J. (222) 117)

Epidermal growth factor receptor

Epidermal growth factor; Breast cancer; Lung cancer; Endometrial cancer (Bolufer, P. (215) 51)

Epidermal growth factor

Epidermal growth factor receptor; Breast cancer; Lung cancer; Endometrial cancer (Bolufer, P. (215) 51)

Renal cyst fluid; Insulin-like growth factor-I; Transforming growth factor- β ; Interleukin-6 (Taide, M. (217) 199)

Equilibrium dialysis

Thyroid hormone autoantibodies; Free T₄; Free T₃; Serum thyrothropin; Graves' disease; Hashimoto's thyroiditis (Sakata, S. (219) 23)

Equol

Isoflavonoids; Daidzein; Genistein (Kelly, G.E. (223) 9)

Erythrocyte age

Glycated hemoglobin; Fructosamine; Glucose tolerance; Aging (Nakashima, K. (215) 111)

Erythrocyte membranes

Stimulatory GTP-binding regulatory protein; Alcohol; Alcoholics (Nakamura, J. (215) 1)

Phospholipid classes; Rat; Extraction; Fatty acids; Solvent (Eder, K. (219) 93)

Erythrocyte water

Whole blood water; Plasma water; Hematological and clinicochemical parameters (Lijnema, T.H. (214) 129)

Erythrocytes

Galactosaemia; UDPGlucose; UDPGalactose (Keevill, N.J. (221) 135)

Insulin binding; Insulin receptors; Pregnancy; Gestational diabetes; Diabetes and pregnancy (Schmon, B. (221) 33)

Multiple sclerosis; Adenosine deaminase (Kopff, M. (214) 97)

Alcohol; Alcoholics; Stimulatory GTP-binding protein; Gs (Nakamura, J. (218) 229)

Erythropoietin

Liver disease; Inflammation; Anaemia; (Pirisi, M. (219) 47)

Erythro-agglutinating phytohemagglutinin-E4

α -Fetoprotein; Carbohydrate chain; Tumor marker; Lectin electrophoresis; Hepatocellular carcinoma; *Lens culinaris* agglutinin-A (Shimizu, K. (214) 3)

Estrogen

Acute intermittent porphyria; Porphyria; Porphyria variegata; Hereditary coproporphyria; Porphobilinogen deaminase; Heme synthesis; Alcohol; Drugs; Progesterone; Gene; Chromosome; mRNA; Mutation (Hindmarsh, J.T. (217) 29)

Estrone sulfate

Steroid sulfatase; Recessive X-linked ichthyosis; High performance liquid chromatography; Estrone (Ohsaki, M. (215) 165)

Estrone

Steroid sulfatase; Recessive X-linked ichthyosis; High performance liquid chromatography; Estrone sulfate (Minoru, M. (215) 165)

Ethanol precipitation method

Gastric juice; Mucin; Gastric ulcer (Azuumi, Y. (221) 219)

Ethanol

Blood; Fucose; Haptoglobin; Lectin; Liver disease (Chambers, W. (219) 177)

Free radicals; Lipid peroxidation; Rats; (Coudray, C. (219) 35)

Ethernet network

Laboratory information system; Graphical user interface; Object-oriented design; Client-server architecture (Wells, I.G. (222) 13)

Ethics

Dynamic test scheduling; Laboratory Information System; Production management; Quality assurance; Telecommunication (Brender, J. (222) 57)

Ethyl oleate

Alcohol; ACAT inhibitors; Acyl-CoA hydrolase; Human liver; Oleoyl-CoA (Smith, J.L. (215) 233)

Expert system

Laboratory computer; Knowledge-based system; Bayes' theorem; Interval arithmetics; Set theory; Syntax analysis; Probability theory; Possibility theory (Pohl, B. (222) 85)

Databases; Database management; Knowledge-based systems (Grimson, J.B. (222) 101)

Test requests; Screening; Electronic data interchange; OPENLABS (Hasman, A. (222) 49)

Extracellular-superoxide dismutase

Heparin affinity; Enzyme-linked immunosorbent assay (Adachi, T. (223) 185)

Extraction

Phospholipid classes; Erythrocyte membranes; Rat; Fatty acids; Solvent (Eder, K. (219) 93)

Extrahepatic cholestasis

Leukotriene E₄; Leukotriene analysis; Hepatobiliary elimination; High-pressure liquid chromatography; Enzyme immunoassay (Mayatepek, E. (218) 185)

Extrelut-1-minicolumns

Sep-Pak silica cartridges; Scintillation proximity assay; Vitamin D metabolites; Calcitriol (Wilder-muth, S. (220) 61)

F

Fab fragments

Digoxin; Poisoning (Bizzaro, N. (217) 225)

Familial combined hyperlipidemia

Lp(a) serum concentration; Coronary heart disease (Fonda, M. (223) 121)

Familial dysbetalipoproteinemia

Remnant-like particles (RLP); RLP-cholesterol; VLDL remnant; Chylomicron remnant; Coronary heart disease (Nakajima, K. (223) 53)

Fatty acids

Phospholipid classes; Erythrocyte membranes; Rat; Extraction; Solvent (Eder, K. (219) 93)

Fat-loading test

Postprandial lipemia; Vitamin A; Gender; (Heller, F.R. (219) 167)

Ferritin

Cerebrospinal fluid; Enzyme-linked immunosorbent assay; Clinical findings (Keir, G. (216) 153)

Cerebrospinal fluid; Clinical findings (Keir, G. (216) 153)

Fetal fibronectin

Insulin-like growth factor binding protein-1; Amniotic fluid; Rupture of fetal membranes (Rutanen, E.-M. (214) 73)

Fetal pathologies

Trehalase isozymes; Prenatal diagnosis; Anal imperforation; Polycystic kidney disease; Amniotic fluid; (Elsiger, M.-A. (216) 91)

 α -Fetoprotein

Carbohydrate chain; Tumor marker; Lectin electrophoresis; Hepatocellular carcinoma; *Lens culinaris* agglutinin-A; Erythro-agglutinating phytohemagglutinin-E4 (Shimizu, K. (214) 3)

Fibroblasts

β -Hexosaminidase; Isoenzymes (Hultberg, B. (216) 73)

Bilirubin toxicity; PKC inhibition; Protein phosphorylation (Amit, Y. (223) 102)

Isoenzymes; (Hultberg, B. (216) 73)

β -N-Acetylhexosaminidase; Isoenzyme; Spinal muscular atrophy (Tassi, C. (221) 203)

Fibronectin

Fragments; Monoclonal antibodies; Urine; Cancer patients (Katayama, M. (217) 115)

Flame photometric detection

Proline; Hydroxyproline; Urine; Gas chromatography; N-Dimethylthiophosphoryl methyl ester derivatives (Kataoka, H. (214) 13)

Fluorescence labeling

Bile acids; High performance liquid chromatography (Güldütuna, S. (214) 195)

Fluorescence polarization immunoassay

Smoking; Cotinine determination; 'König' reaction; Automated analysis (Pickert, A. (217) 143)

Fluorescent glycolipids

Lipid storage diseases; Lipidoses; Skin fibroblasts (Vered, A. (218) 139)

Fluorescent lipid peroxidation products

Cigarette-smoking; Birthweight; Maternal plasma; Cord plasma (Pré, J. (215) 221)

Fluorometry

HPLC; Serotonin; 5-Hydroxyindole-3-acetic acid; 5-Hydroxytryptophan; Tryptophan; Urine; Plasma; Platelets; Tissue; Carcinoid; Diurnal variation; Diet (Kema, I.P. (221) 143)

Follicular lymphoma

t(14; 18) chromosomal rearrangement; *c-erbB-2*; Mammary carcinoma; *N-myc*; Neuroblastoma; *K-ras*; Pulmonary adenocarcinoma; Colorectal carcinoma (Werner, M. (217) 39)

Fragmentation

Apolipoprotein B; Malondialdehyde adducts; Human plasma; Artherosclerosis; Lipid peroxidation (Lecomte, E. (218) 39)

Fragments

Fibronectin; Monoclonal antibodies; Urine; Cancer patients (Katayama, M. (217) 115)

Free oxygen radicals

Chronic granulomatous disease; Tetrazolium salts; Respiratory burst; Densitometry; Polymorphonuclear leukocytes (Iacobini, M. (221) 197)

Free radicals

Ethanol; Lipid peroxidation; Rats; (Coudray, C. (219) 35)

Free thyroxine

Somatic illness; Salicylate; Heparin (Faber, J. (223) 159)

Free T₃

Thyroid hormone autoantibodies; Free T₄; Serum thyrothropin; Equilibrium dialysis; Graves' disease; Hashimoto's thyroiditis (Sakata, S. (219) 23)

Free T₄

Thyroid hormone autoantibodies; Free T₃; Serum thyrothropin; Equilibrium dialysis; Graves' disease; Hashimoto's thyroiditis (Sakata, S. (219) 23)

Fructosamine

Glycated hemoglobin; Glucose tolerance; Aging; Erythrocyte age (Nakashima, K. (215) 111)

Fructose-1,6-diphosphatase deficiency

Monocytes; Lymphocytes; Calcitriol; Tissue culture (Kikawa, Y. (215) 81)

Fucose

Galactose; Glycosylation; Haptoglobin; Rheumatoid arthritis (Thompson, S. (220) 107)

Blood; Ethanol; Haptoglobin; Lectin; Liver disease (Chambers, W. (219) 177)

Functionally defective LPL

Lipoprotein lipase; Immunoassay; Human post-heparin plasma LPL; ELISA (Kobayashi, J. (216) 113)

G

985-G

Medium-chain acyl-CoA dehydrogenase deficiency; Mutation; PCR; Two-stage; *NcoI* digestion (Nagao, M. (220) 165)

G6PD deficiency

Band 3 protein; PK deficiency; Hereditary spherocytosis (human erythrocytes) (Giuliani, A. (220) 211)

Galactitol

Human cataract; Lactose intolerance (Semenza, G. (220) 115)

Galactokinase deficiency

Galactokinase; High performance liquid chromatography (HPLC); Mass screening for galactosemia; (Mizoguchi, N. (216) 145)

Galactokinase

High performance liquid chromatography (HPLC); Mass screening for galactosemia; Galactokinase deficiency (Mizoguchi, N. (216) 145)

Galactosaemia

Erythrocytes; UDPGlucose; UDPGalactose (Keevill, N.J. (221) 135)

Galactose

Fucose; Glycosylation; Haptoglobin; Rheumatoid arthritis (Thompson, S. (220) 107)

Gamma amino butyric acid

Vigabatrin; Amino acids; Beta alanine (Preece, M.A. (218) 113)

Gas chromatography/mass spectrometry

Peroxisomal disease fibroblasts; Eicosanoids; Arachidonic acid metabolism (Malle, E. (217) 205)

Mevalonate kinase deficiency; Bile acid; Cheno-deoxycholic acid; Cholic acid; Stable-isotope; Cholesterol (Gibson, K.M. (217) 217)

Gas chromatography

Proline; Hydroxyproline; Urine; Flame photometric detection; *N*-Dimethylthiophosphoryl methyl ester derivatives (Kataoka, H. (214) 13)

Thin-layer chromatography; Organic acids (Lee, B.Y. (218) 215)

Gastric acidity determination

Gastric acid; Acid-base equilibrium; Blood gas analysis (Niv, Y. (215) 9)

Gastric acid

Gastric acidity determination; Acid-base equilibrium; Blood gas analysis (Niv, Y. (215) 9)

Gastric juice

Mucin; Ethanol precipitation method; Gastric ulcer (Azuumi, Y. (221) 219)

Gastric ulcer

Gastric juice; Mucin; Ethanol precipitation method (Azuumi, Y. (221) 219)

Gas-liquid chromatography

Medium chain triglycerides; Medium chain fatty acids; *n*-Octanoic acid; *n*-Decanoic acid (Mingrone, G. (214) 21)

Gaucher disease

Glucocerebrosidase; Glucocerebrosidase mutations; Gaucher heterozygotes (Forsyth, G.W. (216) 11)

Gaucher heterozygotes

Glucocerebrosidase; Gaucher disease; Glucocerebrosidase mutations (Forsyth, G.W. (216) 11)

Gel-filtration

Microsomes; Myometrium; P450IA1; Differential centrifugation (Lamminen, S. (214) 93)

Gemfibrozil

Normolipidemic subjects; High density lipoprotein; Lipoprotein lipase; Hepatic lipase (Horsmans, Y. (218) 223)

Gender

Postprandial lipemia; Vitamin A; Fat-loading test; (Heller, F.R. (219) 167)

General Practitioners

Lipid knowledge based system; Lipid management system; Interpretative reports (Sinnott, M.M. (222) 71)

Genetic disease

Cystic fibrosis transmembrane conductance regulator (CFTR); Cystic fibrosis; Genotype-phenotype association; Mutation analysis (Tümmeler, B. (217) 23)

Genetic testing

DNA probes; Polymerase chain reaction (PCR); Molecular testing (Garrett, C.T. (217) 85)

Gene

Acute intermittent porphyria; Porphyria; Porphyria variegata; Hereditary coproporphyria; Porphobilinogen deaminase; Heme synthesis; Alcohol; Drugs; Estrogen; Progesterone; Chromosome; mRNA; Mutation (Hindmarsh, J.T. (217) 29)

Genistein

Isoflavonoids; Daidzein; Equol (Kelly, G.E. (223) 9)

Genotype-phenotype association

Cystic fibrosis transmembrane conductance regulator (CFTR); Cystic fibrosis; Genetic disease; Mutation analysis (Tümmeler, B. (217) 23)

Genotype/phenotype

Apolipoprotein E; Polymerase chain reaction using allele-specific oligonucleotide; Amplification refractory mutation system analysis; Diabetes mellitus (Stavljenic-Rukavina, A. (216) 191)

Genotype

Inborn error; Diagnosis (Hill, R.E. (217) 3)

Genotyping

Phenylketonuria; Intellectual outcome; Phenylalanine hydroxylase gene (Trefz, F.K. (217) 15)

Gestational diabetes

Insulin binding; Insulin receptors; Erythrocytes; Pregnancy; Diabetes and pregnancy (Schmon, B. (221) 33)

Gliostatin

Rheumatoid arthritis; Synovial fluids; Angiogenesis; Enzyme immunoassay; Platelet-derived endothelial cell growth factor (Asai, K. (218) 1)

Glomerulonephritis

¹H-NMR urinalysis; Tubular interstitial changes (Lundina, T.A. (214) 165)

Glucocerebrosidase mutations

Glucocerebrosidase; Gaucher disease; Gaucher heterozygotes (Forsyth, G.W. (216) 11)

Glucocerebrosidase

Gaucher disease; Glucocerebrosidase mutations; Gaucher heterozygotes (Forsyth, G.W. (216) 11)

Glucose oxidase

Human granulocyte colony-stimulating factor; Chemiluminescent immunoassay; Infectious diseases (Kiriya, R. (220) 201)

Glucose tolerance

Glycated hemoglobin; Fructosamine; Aging; Erythrocyte age (Nakashima, K. (215) 111)

Glucose-6-phosphate dehydrogenase

Malaria; *Plasmodium vivax*; Glutathione; Glutathione peroxidase; Glutathione reductase (Mathews, S.T. (219) 159)

Glutamate:glyoxylate aminotransferase

Alanine:glyoxylate aminotransferase; Hyperoxaluria; Human liver; High-performance liquid chromatography (Petrarulo, M. (218) 193)

Glutamine

O-Phthalaldehyde; Chromatography; Plasma; Cerebrospinal fluid (Teerlink, T. (218) 159)

Glutaric aciduria type 1

Glutaryl-CoA dehydrogenase; Tritium release; Cultured fibroblasts (Christensen, E. (220) 71)

 γ -Glutamyltranspeptidase

Hepatocellular carcinoma; Sugar chain (Ohta, H. (214) 83)

Glutaryl-CoA dehydrogenase

Glutaric aciduria type 1; Tritium release; Cultured fibroblasts (Christensen, E. (220) 71)

Glutathione peroxidase

Loaded erythrocytes; Human hemoglobin chains; Thalassemia (Grelloni, F. (217) 187)

Malaria; *Plasmodium vivax*; Glutathione; Glutathione reductase; Glucose-6-phosphate dehydrogenase (Mathews, S.T. (219) 159)

Radioimmunoassay; Selenium; (Huang, W. (219) 139)

Glutathione reductase

Malaria; *Plasmodium vivax*; Glutathione; Glutathione peroxidase; Glucose-6-phosphate dehydrogenase (Mathews, S.T. (219) 159)

Glutathione

Malaria; *Plasmodium vivax*; Glutathione peroxidase; Glutathione reductase; Glucose-6-phosphate dehydrogenase (Mathews, S.T. (219) 159)

Glycan phosphatidylinositol anchors

Alkaline phosphatase; Glycan phosphatidylinositol-specific phospholipase D; Gradient gel electrophoresis; Partitioning (Raymond, F.D. (215) 139)

Glycan phosphatidylinositol-specific phospholipase D

Alkaline phosphatase; Glycan phosphatidylinositol anchors; Gradient gel electrophoresis; Partitioning (Raymond, F.D. (215) 139)

Glycated apolipoprotein A-I

Site of glycation; Diabetes (Calvo, C. (217) 193)

Glycated hemoglobin

Fructosamine; Glucose tolerance; Aging; Erythrocyte age (Nakashima, K. (215) 111)

Glycation

Diabetes; Non-enzymatic glycosylation; Impairment of immunoreactivity (Sasaki, Y. (220) 119)

Glycoform

Alpha-1-acid glycoprotein; Inflammation; Oligosaccharide; Rats (Venembre, P.C. (221) 59)

Glycogen isophosphorylase BB

Human blood plasma; Healthy persons (Rabitzsch, G. (214) 109)

Glycosaminoglycans

Mucopolysaccharidoses; Analysis; Urine; Electrophoresis (Piraud, M. (221) 171)

Glycosylation

Fucose; Galactose; Haptoglobin; Rheumatoid arthritis (Thompson, S. (220) 107)

gp150

Alanine-aminopeptidase; Leucine-aminopeptidase; Aminopeptidase-N; Serum; Plasma; CD13 (Favaloro, E.J. (220) 81)

Gradient gel electrophoresis

Alkaline phosphatase; Glycan phosphatidylinositol anchors; Glycan phosphatidylinositol-specific phospholipase D; Partitioning (Raymond, F.D. (215) 139)

Graphical user interface

Laboratory information system; Object-oriented design; Client-server architecture; Ethernet network (Wells, I.G. (222) 13)

Graves' disease

Interleukin-4; Radioimmunoassay; Autoimmune thyroid disease; Human peripheral blood mononuclear cells; Chronic thyroiditis (Hirooka, Y. (216) 1)

Thyroid hormone autoantibodies; Free T₄; Free T₃; Serum thyrotropin; Equilibrium dialysis; Hashimoto's thyroiditis (Sakata, S. (219) 23)

Gs

Alcohol; Alcoholics; Stimulatory GTP-binding protein; Erythrocyte (Nakamura, J. (218) 229)

Guidelines

Clinical laboratory information systems; Standards; Ireland (Kenny, D. (222) 147)

H

¹H-NMR urinalysis

Glomerulonephritis; Tubular interstitial changes (Lundina, T.A. (214) 165)

Half-life of RNA

Urinary modified nucleosides; Biological marker; RNA turnover; Cancer; AIDS (Nakano, K. (218) 169)

Haptoglobin

Fucose; Galactose; Glycosylation; Rheumatoid arthritis (Thompson, S. (220) 107)

Blood; Ethanol; Fucose; Lectin; Liver disease (Chambers, W. (219) 177)

Hashimoto's thyroiditis

Thyroid hormone autoantibodies; Free T₄; Free T₃; Serum thyrothrin; Equilibrium dialysis; Graves' disease (Sakata, S. (219) 23)

hCG

Isoforms; Chromatofocusing; Down's syndrome (Defasque, P. (223) 173)

HDL cholesterol

Apo B; LDL cholesterol; VLDL cholesterol; Non-HDL cholesterol; Triglycerides (Levinson, S.S. (223) 31)

HDL_{2b}

High density lipoprotein; Coronary heart disease; Coronary protection (Wilson, H.M. (220) 175)

HDL

Cholesteryl ester transfer protein; Lipoprotein lipase deficiency; Hyperchylomicronemia; Hypertriglyceridemia; VLDL (Iglesias, A. (221) 73)

Lipomatosis; Lipid metabolism; Lipoproteins; Inherited disorder (Deiana, L. (223) 143)

Healthy individuals

Modified nucleosides; Pseudouridine; 1-Methyladenosine; Urinary excretion patterns (Itoh, K. (217) 221)

Healthy infants and children

Serum hyaluronic acid; Hepatobiliary disease of infancy (Trivedi, P. (215) 29)

Healthy persons

Glycogen isophosphorylase BB; Human blood plasma (Rabitzsch, G. (214) 109)

Hematological and clinicochemical parameters

Whole blood water; Plasma water; Erythrocyte water (Lijnema, T.H. (214) 129)

Heme synthesis

Acute intermittent porphyria; Porphyria; Porphyria variegata; Hereditary coproporphyria; Porphobilinogen deaminase; Alcohol; Drugs; Estrogen; Progesterone; Gene; Chromosome; mRNA; Mutation (Hindmarsh, J.T. (217) 29)

Heparin affinity

Extracellular-superoxide dismutase; Enzyme-linked immunosorbent assay (Adachi, T. (223) 185)

Heparin

Monoacylglycerol; Diacylglycerol; Triacylglycerol; Lipoprotein lipase; Plasma (Fielding, B.A. (216) 167)

Free thyroxine; Somatic illness; Salicylate (Faber, J. (223) 159)

Hepatic convertase

Antitrypsin Pittsburgh; Circulating proalbumin (Brennan, S.O. (214) 123)

Hepatic lipase

Gemfibrozil; Normolipidemic subjects; High density lipoprotein; Lipoprotein lipase (Horsmans, Y. (218) 223)

Hepatobiliary disease of infancy

Serum hyaluronic acid; Healthy infants and children (Trivedi, P. (215) 29)

Hepatobiliary elimination

Leukotriene E₄; Leukotriene analysis; Extrahepatic cholestasis; High-pressure liquid chromatography; Enzyme immunoassay (Mayatepek, E. (218) 185)

Hepatocellular carcinoma

γ -Glutamyltranspeptidase; Sugar chain (Ohta, H. (214) 83)

α -Fetoprotein; Carbohydrate chain; Tumor marker; Lectin electrophoresis; *Lens culinaris* agglutinin-A; Erythro-agglutinating phyto-hemagglutinin-E4 (Shimizu, K. (214) 3)

TIMP (Tissue inhibitor of metalloproteinases); Liver disease (Murawaki, Y. (218) 47)

Hereditary coproporphyria

Acute intermittent porphyria; Porphyria; Porphyria variegata; Porphobilinogen deaminase; Heme synthesis; Alcohol; Drugs; Estrogen; Progesterone; Gene; Chromosome; mRNA; Mutation (Hindmarsh, J.T. (217) 29)

Hereditary spherocytosis (human erythrocytes)

Band 3 protein; G6PD deficiency; PK deficiency (Giuliani, A. (220) 211)

β -Hexosaminidase

Diabetic nephropathy; Insulin-dependent diabetes mellitus (Romero, K.M. (216) 125)

High density lipoprotein

HDL_{2b}; Coronary heart disease; Coronary protection (Wilson, H.M. (220) 175)

Gemfibrozil; Normolipidemic subjects; Lipoprotein lipase; Hepatic lipase (Horsmans, Y. (218) 223)

High performance liquid chromatography (HPLC)

Galactokinase; Mass screening for galactosemia; Galactokinase deficiency (Mizoguchi, N. (216) 145)

Carnitine; Acylcarnitine (Poorthuis, B.J.H. (216) 53)

Acylcarnitines; Enzyme reactor; Acylcarnitine hydrolase (Matsumoto, K. (216) 135)

Steroid sulfatase; Recessive X-linked ichthyosis; Estrone sulfate; Estrone (Minoru, M. (215) 165)

Bile acids; Fluorescence labeling (Güldütuna, S. (214) 195)

Glutamate:glyoxylate aminotransferase; Alanine:glyoxylate aminotransferase; Hyperoxaluria; Human liver (Petrarulo, M. (218) 193)

Leukotriene E₄; Leukotriene analysis; Extrahepatic cholestasis; Hepatobiliary elimination; Enzyme immunoassay (Mayatepek, E. (218) 185)

Histidase activity

Reversed-phase HPLC; Histidinemia; Urocanic acid; Human fingernails (Fujitaka, M. (215) 227)

Histidinemia

Reversed-phase HPLC; Histidase activity; Urocanic acid; Human fingernails (Fujitaka, M. (215) 227)

Histiocytosis X

LDH isoenzymes; Blood cells; Lymphocytes; Monocytes (Perlino, E. (223) 83)

Homovanillic acid

Vanillylmandelic acid; Neuroblastoma screening; Cancer (Mathieu, P. (220) 229)

Hormones

Calcitonin; Radioimmunoassay; Peptides; Peptide hormones; Regulatory peptides (Schifter, S. (215) 99)

Hormone-sensitive lipase

Adipose tissue; Northern blot; Ribonuclease protection assay (Frayn, K.N. (216) 183)

HPLC assay

Biotinidase (Biocytinase); Human serum; Kinetic study (Oizumi, J. (215) 63)

HPLC determination

Intestinal permeability; Rhamnose; 3-O-Methyl-D-glucose; Xylase; Lactulose (Sørensen, S.H. (221) 115)

HPLC

Fluorometry; Serotonin; 5-Hydroxyindole-3-acetic acid; 5-Hydroxytryptophan; Tryptophan; Urine; Plasma (Kema, I.P. (221) 143)

Pyridine coenzymes; Purines; Human erythrocytes; Inherited disorders; Sample preparation (Micheli, V. (220) 1)

Human anti-mouse antibodies (HAMA)

Inter-laboratory survey (HAMA Study Group, (215) 153)

Human blood plasma

Glycogen isophosphorylase BB; Healthy persons (Rabitzsch, G. (214) 109)

Human cataract

Lactose intolerance; Galactitol (Semenza, G. (220) 115)

Human erythrocytes

Pyridine coenzymes; Purines; Inherited disorders; HPLC; Sample preparation (Micheli, V. (220) 1)

Microcalorimetry; Ca-ionophore; ATP; Lactate; Mg^{2+} (Engström, I. (219) 113)

Human fingernails

Reversed-phase HPLC; Histidinemia; Histidase activity; Urocanic acid (Fujitaka, M. (215) 227)

Human granulocyte colony-stimulating factor

Chemiluminescent immunoassay; Glucose oxidase; Infectious diseases (Kiriya, R. (220) 201)

Human hemoglobin chains

Glutathione peroxidase; Loaded erythrocytes; Thalassemia (Grelloni, F. (217) 187)

Human liver

Alcohol; ACAT inhibitors; Acyl-CoA hydrolase; Ethyl oleate; Oleoyl-CoA (Smith, J.L. (215) 233)

Glutamate:glyoxylate aminotransferase; Alanine:glyoxylate aminotransferase; Hyperoxaluria; High-performance liquid chromatography (Petrarulo, M. (218) 193)

Human peripheral blood mononuclear cells

Interleukin-4; Radioimmunoassay; Autoimmune thyroid disease; Graves' disease; Chronic thyroiditis (Hirooka, Y. (216) 1)

Human plasma

Apolipoprotein B; Malondialdehyde adducts; Fragmentation; Arteriosclerosis; Lipid peroxidation (Lecomte, E. (218) 39)

Human post-heparin plasma LPL

Lipoprotein lipase; Immunoassay; Functionally defective LPL; ELISA (Kobayashi, J. (216) 113)

Human semen

Deoxyribonuclease; Purification; Multiplicity; Prostate (Yasuda, T. (218) 5)

Human serum

Biotinidase (Biocytinase); HPLC assay; Kinetic study (Oizumi, J. (215) 63)

Bismuth; Colloidal bismuth subcitrate; Inductively coupled plasma-mass spectrometry (ICP-MS) (Vanhoe, H. (219) 79)

Human

Prostasomes; Seminal plasma; 5'-Nucleotidase; Membrane-bound (Fabiani, R. (216) 175)

Hydrocephaly

Acetylcholinesterase; Butyrylcholinesterase; Cerebrospinal fluid; Meningitis; Ventriculitis (Tornel, P.L. (214) 219)

Hydroxybutyric dehydrogenase

Enzyme-linked immunoglobulin; Lactate dehydrogenase (Taguchi, H. (220) 225)

5-Hydroxylindole-3-acetic acid

HPLC; Fluorometry; Serotonin; 5-Hydroxytryptophan; Tryptophan; Urine; Plasma (Kema, I.P. (221) 143)

Hydroxyproline

Proline; Urine; Gas chromatography; Flame photometric detection; *N*-Dimethylthiophosphoryl methyl ester derivatives (Kataoka, H. (214) 13)

5-Hydroxytryptophan

HPLC; Fluorometry; Serotonin; 5-Hydroxylindole-3-acetic acid; Tryptophan; Urine; Plasma (Kema, I.P. (221) 143)

Hypercholesterolaemia

Apo B gene; Restriction fragment length polymorphism (Series, J.J. (215) 89)

Hyperchylomicronemia

Cholesteryl ester transfer protein; Lipoprotein lipase deficiency; Hypertriglyceridemia; HDL; VLDL (Iglesias, A. (221) 73)

Hyperoxaluria

Glutamate:glyoxylate aminotransferase; Alanine:glyoxylate aminotransferase; Human liver; High-performance liquid chromatography (Petrarulo, M. (218) 193)

Hyperphenylalaninemia

Biopterin; Neopterin; Tetrahydrobiopterin deficiency (Ponzone, A. (216) 63)

Hypertriglyceridemia

Cholesteryl ester transfer protein; Lipoprotein lipase deficiency; Hyperchylomicronemia; HDL; VLDL (Iglesias, A. (221) 73)

Hypoxanthine

Adenosine; Inosine; Xanthine; Pregnancy; Uterine smooth muscle; Skeletal striated muscle (Ronquist, G. (223) 93)

I

IgA subclass

Lectin; ELISA; Secretory IgA; Affinity chromatography (Cullina, M.J. (216) 23)

IgA

Isoelectric focusing; IgM; Cerebrospinal fluid; Meningoencephalitis; Neuroborreliosis (Kaiser, R. (216) 39)

Secretions; Single radial immunodiffusion; Electroimmunodiffusion (Meillet, D. (214) 235)

IgD myeloma

IgD; Two-dimensional electrophoresis; Paraprotein (Stulík, J. (218) 148)

IgD

IgD myeloma; Two-dimensional electrophoresis; Paraprotein (Stulík, J. (218) 148)

IgM

Isoelectric focusing; IgA; Cerebrospinal fluid; Meningoencephalitis; Neuroborreliosis (Kaiser, R. (216) 39)

Immunoaffinoelectrophoresis

Microheterogeneity; α_1 -Antitrypsin; Serum; Meconium; Cystic fibrosis (Duthel, S. (215) 173)

Immunoassay

Lipoprotein lipase; Human post-heparin plasma LPL; Functionally defective LPL; ELISA (Kobayashi, J. (216) 113)

Streptokinase; Antibodies; ELISA; Myocardial infarction (Bom, V.J.J. (218) 121)

Immunoblotting

Lipoprotein(a); Apo(a) isoforms (Geroldi, D. (221) 159)

Immunofixation

Alcohol abuse; Asialotransferrin; Carbohydrate-deficient transferrin (CDT); Isoelectric focusing (IEF); Transaminases (Löf, K. (217) 175)

Immunoglobulin G

Dopamine; Psychotic patients; Cerebrospinal fluid (Bergquist, J. (217) 129)

Immunoglobulins

C-reactive protein; Acute-phase proteins; Macroglobulinemia; Latex reagent (Ponge, T.D. (220) 101)

Immunoradiometric assay

Lipoprotein(a); Enzyme immunoassay; Plasminogen; Atherosclerosis (März, W. (214) 153)

Impairment of immunoreactivity

Diabetes; Non-enzymatic glycosylation; Glycation (Sasaki, Y. (220) 119)

Inborn error of metabolism

3-Methylglutaconic acid; Stable isotope dilution; Mass spectrometry (Kelley, R.I. (220) 157)

Inborn error

Genotype; Diagnosis (Hill, R.E. (217) 3)

Inductively coupled plasma mass spectrometry

Bismuth; Thallium; Plasma; Urine (Mauras, Y. (218) 201)

Bismuth; Human serum; Colloidal bismuth subcitrate (Vanhoe, H. (219) 79)

Infectious diseases

Human granulocyte colony-stimulating factor; Chemiluminescent immunoassay; Glucose oxidase (Kiriya, R. (220) 201)

Inflammation

Alpha-1-acid glycoprotein; Oligosaccharide; Glycoform; Rats (Venembre, P.C. (221) 59)

Lipoprotein(a); Acute phase proteins (Ledue, T.B. (223) 73)

Rat; Carrageenan-induced granuloma; Antioxidants; Lipid peroxidation; Iron; Oxygen radicals (Muntané, J. (214) 185)

Erythropoietin; Liver disease; Anaemia; (Pirisi, M. (219) 47)

Inherited disorders

Pyridine coenzymes; Purines; Human erythrocytes; HPLC; Sample preparation (Micheli, V. (220) 1)

Lipomatosis; Lipid metabolism; Lipoproteins; HDL (Deiana, L. (223) 143)

Inorganic phosphate

Enzymatic assay (Ungerer, J.P.J. (223) 149)

Inosine

Adenosine; Hypoxanthine; Xanthine; Pregnancy;

Uterine smooth muscle; Skeletal striated muscle (Ronquist, G. (223) 93)

Insulin binding

Insulin receptors; Erythrocytes; Pregnancy; Gestational diabetes; Diabetes and pregnancy (Schmon, B. (221) 33)

Insulin receptors

Insulin binding; Erythrocytes; Pregnancy; Gestational diabetes; Diabetes and pregnancy (Schmon, B. (221) 33)

Insulin therapy

Lipoproteins; Apolipoproteins; Triglycerides (Reverter, J.L. (223) 113)

Insulin-dependent diabetes mellitus

β -Hexosaminidase; Diabetic nephropathy (Romero, K.M. (216) 125)

Insulin-like growth factor binding protein-1

Fetal fibronectin; Amniotic fluid; Rupture of fetal membranes (Rutanen, E.-M. (214) 73)

Insulin-like growth factor-binding protein

Phosphorylation; Pregnancy; Amniotic fluid; Decidua; (Koistinen, R. (215) 189)

Insulin-like growth factor-I

Renal cyst fluid; Epidermal growth factor; Transforming growth factor- β ; Interleukin-6 (Taide, M. (217) 199)

Intellectual outcome

Phenylketonuria; Phenylalanine hydroxylase gene; Genotyping (Trefz, F.K. (217) 15)

Intensive care

Post-analytical functionalities; Clinical laboratory services; Primary care; Interpretative reporting; Alarms generation (Nykänen, P. (222) 37)

Interleukin-4

Radioimmunoassay; Autoimmune thyroid disease; Human peripheral blood mononuclear cells; Graves' disease; Chronic thyroiditis (Hirooka, Y. (216) 1)

Interleukin-6

Renal cyst fluid; Epidermal growth factor; Insulin-like growth factor-I; Transforming growth factor- β (Taide, M. (217) 199)

Interoperability

Decision support systems; Knowledge bases;

Clinical laboratory information systems; Medical informatics computing methodologies; Cooperative architectures (Boran, G.P. (222) 23)

Interpretative reporting

Post-analytical functionalities; Clinical laboratory services; Primary care; Intensive care; Alarms generation (Nykänen, P. (222) 37)

Interpretative reports

Lipid knowledge based system; Lipid management system; General Practitioners (Sinnott, M.M. (222) 71)

Interstitial collagenase

Sandwich enzyme immunoassay; Monoclonal antibody; Tissue inhibitors of metalloproteinases; (Zhang, J. (219) 1)

Interstitial lung disease

Bronchoalveolar lavage fluid; Secretory IgA; Serum IgA; Enzyme immunoassay methods (Sato, T. (220) 145)

Interval arithmetics

Laboratory computer; Knowledge-based system; Expert system; Bayes' theorem; Set theory; Syntax analysis; Probability theory; Possibility theory (Pohl, B. (222) 85)

Inter-laboratory survey

Human anti-mouse antibodies (HAMA) (HAMA Study Group, (215) 153)

Intestinal permeability

Rhamnose; 3-O-Methyl-D-glucose; Xylase; Lactulose; HPLC determination (Sørensen, S.H. (221) 115)

Ireland

Clinical laboratory information systems; Guidelines; Standards (Kenny, D. (222) 147)

Iron

Cardiomyopathy; Copper; Zinc; Ejection fraction; Cardiac index (Oster, O. (214) 209)

Transferrin receptor; Placenta; Cytotrophoblast (Starreveld, J.S. (220) 47)

Isoelectric focusing (IEF)

Alcohol abuse; Asialotransferrin; Carbohydrate-deficient transferrin (CDT); Immunofixation; Transaminases (Löf, K. (217) 175)

IgM; IgA; Cerebrospinal fluid; Men-

ingoencephalitis; Neuroborreliosis (Kaiser, R. (216) 39)

IgM; IgA; Meningoence-phalitis; Neuroborreliosis (Kaiser, R. (216) 39)

Isoenzymes

Fibroblasts; β -Hexosaminidase (Hultberg, B. (216) 73)

β -N-Acetylhexosaminidase; Spinal muscular atrophy; Fibroblasts (Tassi, C. (221) 203)

Alkaline phosphatase; Osteosarcoma; Transcription levels (Stinson, R.A. (221) 105)

Blood neutrophils; Characterization; Down's syndrome; Early placental variant (Vergnes, H.A. (218) 105)

Isoflavonoids

Daidzein; Genistein; Equol (Kelly, G.E. (223) 9)

Isoforms

hCG; Chromatofocusing; Down's syndrome (Defasque, P. (223) 173)

Iso-enzymes

Alcohol misuse; Alcoholic liver disease; Amylase; Cirrhosis; Salivary gland disease (Deenmamode, J.M.J. (223) 169)

K

K-ras

t(14; 18) chromosomal rearrangement; Follicular lymphoma; *c-erbB-2*; Mammary carcinoma; *N-myc*; Neuroblastoma; Pulmonary adenocarcinoma; Colorectal carcinoma (Werner, M. (217) 39)

Kinetic enzyme assay

Zinc inhibition; Zinc activation; Zinc and EDTA blood angiotensin-converting enzyme (Buttery, J.E. (217) 213)

Kinetic study

Biotinidase (Biocytinase); Human serum; HPLC assay (Oizumi, J. (215) 63)

Kinetics

Turbidity; Nephelometry; Nucleation; Calcium oxalate crystallization; Nucleation promoters (Rodgers, A.L. (220) 125)

Knowledge based system

Decision support systems; Standards; Clinical laboratory information systems (Johansson, B. (222) 123)

Laboratory computer; Expert system; Bayes' theorem; Interval arithmetics; Set theory; Syntax analysis; Probability theory; Possibility theory (Pohl, B. (222) 85)

Databases; Database management; Expert systems (Grimson, J.B. (222) 101)

Tetanus; Tetanus immunity; Allergic reactions; Booster immunization (Schröder, J.P. (222) 79)

Knowledge bases

Decision support systems; Clinical laboratory information systems; Medical informatics computing methodologies; Interoperability; Cooperative architectures (Boran, G.P. (222) 23)

'König' reaction

Smoking; Cotinine determination; Fluorescence polarization immunoassay; Automated analysis (Pickert, A. (217) 143)

L

Laboratory computer

Knowledge-based system; Expert system; Bayes' theorem; Interval arithmetics; Set theory; Syntax analysis; Probability theory; Possibility theory (Pohl, B. (222) 85)

Laboratory Information System

Dynamic test scheduling; Ethics; Production management; Quality assurance; Telecommunication (Brender, J. (222) 57)

Graphical user interface; Object-oriented design; Client-server architecture; Ethernet network (Wells, I.G. (222) 13)

Lactate dehydrogenase

Enzyme-linked immunoglobulin; Hydroxybutyric dehydrogenase (Taguchi, H. (220) 225)

Lactate

Microcalorimetry; Human erythrocytes; Cationophore; ATP; Mg^{2+} (Engström, I. (219) 113)

Lactose intolerance

Human cataract; Galactitol (Semenza, G. (220) 115)

Lactulose

Intestinal permeability; Rhamnose; 3-O-Methyl-D-glucose; Xylase; HPLC determination (Sørensen, S.H. (221) 115)

Latex reagent

C-reactive protein; Immunoglobulins; Acute-phase proteins; Macroglobulinemia (Ponge, T.D. (220) 101)

Laurylsulphate, sodium salt-polyacrylamide-gel-electrophoresis

Autoantibodies; Autoantigen; Muscle; Age; Western blot (Zimmermann, C.W. (218) 29)

LDH isoenzymes

Blood cells; Histiocytosis X; Lymphocytes; Monocytes (Perlino, E. (223) 83)

LDL cholesterol

Apo B; VLDL cholesterol; Non-HDL cholesterol; HDL cholesterol; Triglycerides (Levinson, S.S. (223) 31)

Lead

Inductively coupled plasma mass spectrometry

(ICPMS); Bismuth; Thallium; Plasma; Urine (Mauras, Y. (218) 201)

Lectin electrophoresis

α -Fetoprotein; Carbohydrate chain; Tumor marker; Hepatocellular carcinoma; *Lens culinaris* agglutinin-A; PHA-E4 (Shimizu, K. (214) 3)

Lectin

ELISA; IgA subclass; Secretory IgA; Affinity chromatography (Cullina, M.J. (216) 23)

Blood; Ethanol; Fucose; Haptoglobin; Liver disease (Chambers, W. (219) 177)

Lens culinaris agglutinin-A

α -Fetoprotein; Carbohydrate chain; Tumor marker; Lectin electrophoresis; Hepatocellular carcinoma; Erythro-agglutinating phytohemagglutinin-E4 (Shimizu, K. (214) 3)

Leucine dehydrogenase

Maple syrup urine disease; Neonatal screening; Enzymatic analysis; Branched-chain amino acids; Blood spots (Wendel, U. (219) 105)

Leucine-aminopeptidase

Alanine-aminopeptidase; Aminopeptidase-N; Serum; Plasma; gp150; CD13 (Favaloro, E.J. (220) 81)

Leukemia

Methotrexate; 2,4-Diamino-7-hydroxy-pteridines; Plasma; Cerebrospinal fluid (Dhondt, J.L. (220) 189)

Minimal residual disease (MRD); Polymerase chain reaction (PCR) (Bartram, C.R. (217) 75)

Leukotriene analysis

Leukotriene E_4 ; Extrahepatic cholestasis; Hepatobiliary elimination; High-pressure liquid chromatography; Enzyme immunoassay (Mayatepek, E. (218) 185)

Leukotriene E_4

Leukotriene analysis; Extrahepatic cholestasis; Hepatobiliary elimination; High-pressure liquid chromatography; Enzyme immunoassay (Mayatepek, E. (218) 185)

Linoleic acid

Vitamin E; Tumor necrosis factor- α ; Cholestan-

3 β ,5 α ,6 β -triol; Elastase-like activity; Endothelial cells (Toborek, M. (215) 201)

Lipid knowledge based system

Lipid management system; General Practitioners; Interpretative reports (Sinnott, M.M. (222) 71)

Lipid management system

Lipid knowledge based system; General Practitioners; Interpretative reports (Sinnott, M.M. (222) 71)

Lipid metabolism

Lipomatosis; Lipoproteins; HDL; Inherited disorder (Deiana, L. (223) 143)

Lipid peroxidation

Malondialdehyde; Type 1 diabetes mellitus; Type 2 diabetes mellitus; Angiopathy (Gallou, G. (214) 227)

Obstructive jaundice; Cholelithiasis (Tsai, L.-Y. (215) 41)

Apolipoprotein B; Malondialdehyde adducts; Fragmentation; Human plasma; Artherosclerosis (Lecomte, E. (218) 39)

Asthma; Oxidative metabolism; Zinc; Selenium (Malvy, J.-M.D. (218) 117)

Ethanol; Free radicals; Rats; (Coudray, C. (219) 35)

Lipid storage diseases

Lipidoses; Fluorescent glycolipids; Skin fibroblasts (Vered, A. (218) 139)

Lipidoses

Lipid storage diseases; Fluorescent glycolipids; Skin fibroblasts (Vered, A. (218) 139)

Lipid

Cholesterol; Stomach; Triglyceride; Xanthoma (Chang, F.-Y. (217) 233)

Lipomatosis

Lipid metabolism; Lipoproteins; HDL; Inherited disorder (Deiana, L. (223) 143)

Lipoprotein lipase deficiency

Cholesteryl ester transfer protein; Hyperchylomicronemia; Hypertriglyceridemia; HDL; VLDL (Iglesias, A. (221) 73)

Lipoprotein lipase

Immunoassay; Human post-heparin plasma LPL; Functionally defective LPL; ELISA (Kobayashi, J. (216) 113)

Monoacylglycerol; Diacylglycerol; Triacylglycerol; Heparin; Plasma (Fielding, B.A. (216) 167)

Immunoassay; Human post-heparin plasma LPL; Functionally defective LPL (Kobayashi, J. (216) 113)

Gemfibrozil; Normolipidemic subjects; High density lipoprotein; Hepatic lipase (Horsmans, Y. (218) 223)

Very low density lipoprotein; Diabetes mellitus; Metabolites (Saheki, S. (217) 105)

Lipoproteins

Apolipoproteins; Insulin therapy; Triglycerides (Reverter, J.L. (223) 113)

Lipomatosis; Lipid metabolism; HDL; Inherited disorder (Deiana, L. (223) 143)

Triglycerides; Cholesterol; Apoproteins; Atherosclerosis (Manzato, E. (219) 57)

Lipoprotein(a) (Lp(a))

Apolipoprotein(a) (apo(a)); Apo(a) isoforms; Apo(a) alleles; Apo(a) phenotypes (Abe, A. (219) 149)

Acute phase proteins; Inflammation (Ledue, T.B. (223) 73)

Diabetes mellitus (complications) (Ritter, M.M. (214) 45)

Immunoblotting; Apo(a) isoforms (Geroldi, D. (221) 159)

Elisa; Quantitation; Oxidatively modified low density lipoprotein (Wang, H. (218) 97)

Plasminogen; Lp(a) assays (Baldo-Enzi, G. (218) 83)

Liver cirrhosis

Bile acids; Serum (Greco, A.V. (221) 183)

Liver disease

Tissue inhibitor of metalloproteinases (TIMP); Hepatocellular carcinoma (Murawaki, Y. (218) 47)

Blood; Ethanol; Fucose; Haptoglobin; Lectin (Chambers, W. (219) 177)

Erythropoietin; Inflammation; Anaemia; (Pirisi, M. (219) 47)

Liver needle biopsy

β -Oxidation disorders; Alcoholic fatty liver (Eaton, S. (220) 219)

Liver transplantation

Enzymes; Acute rejection; Necrosis index Gozzo, M.L. (214) 175)

Loaded erythrocytes

Glutathione peroxidase; Human hemoglobin chains; Thalassemia (Grelloni, F. (217) 187)

Low birth weight infant

Platelet activating factor; Patent ductus arteriosus; Chronic lung disease; Bronchopulmonary dysplasia; Tracheal aspirate (Koyama, N. (215) 73)

Low density lipoprotein (LDL)

Modified lipoprotein; Sialic acid; Atherosclerosis (Ruelland, A. (221) 127)

Lp(a) assays

Lipoprotein(a); Plasminogen (Baldo-Enzi, G. (218) 83)

Lp(a) serum concentration

Familial combined hyperlipidemia; Coronary heart disease (Fonda, M. (223) 121)

Lung cancer

Epidermal growth factor; Epidermal growth factor receptor; Breast cancer; Endometrial cancer (Bolufer, P. (215) 51)

Lyme testing

Data reduction; Serological assay; Computer programs; Statistical evaluation of assays (Sorensen, K. (214) 55)

Lymphocyte cells

Uraemia; Nucleases; Lymphocytic Mg^{2+} , Mn^{2+} ions concentration (Adamiec, R. (221) 15)

Lymphocytes

Fructose-1,6-diphosphatase deficiency; Monocytes; Calcitriol; Tissue culture (Kikawa, Y. (215) 81)

LDH isoenzymes; Blood cells; Histiocytosis X; Monocytes (Perlino, E. (223) 83)

Lymphocytic Mg^{2+} , Mn^{2+} ions concentration

Uraemia; Lymphocyte cells; Nucleases (Adamiec, R. (221) 15)

Lysosomal enzymes

Plasma; Neonates; Twins (Goi, G. (214) 61)

M

Macroglobulinemia

C-reactive protein; Immunoglobulins; Acute-phase proteins; Latex reagent (Ponge, T.D. (220) 101)

Malaria

Plasmodium vivax; Glutathione; Glutathione peroxidase; Glutathione reductase; Glucose-6-phosphate dehydrogenase (Mathews, S.T. (219) 159)

Malondialdehyde adducts

Apolipoprotein B; Fragmentation; Human plasma; Artherosclerosis; Lipid peroxidation (Lecomte, E. (218) 39)

Malondialdehyde

Lipid peroxidation; Type 1 diabetes mellitus; Type 2 diabetes mellitus; Angiopathy (Gallou, G. (214) 227)

Mammary carcinoma

t(14; 18) chromosomal rearrangement; Follicular lymphoma; *c-erbB-2*; *N-myc*; Neuroblastoma; *K-ras*; Pulmonary adenocarcinoma; Colorectal carcinoma (Werner, M. (217) 39)

Man

5,6-Dihydrouridine; *N*⁶-threoninocarbonyladenine; tRNA degradation; Rat; Metabolic rate (Topp, H. (218) 73)

Maple syrup urine disease

Neonatal screening; Leucine dehydrogenase; Enzymatic analysis; Branched-chain amino acids; Blood spots (Wendel, U. (219) 105)

Mass screening for galactosemia

Galactokinase; High performance liquid chromatography (HPLC); Galactokinase deficiency (Mizoguchi, N. (216) 145)

Mass spectrometry

3-Methylglutaconic acid; Stable isotope dilution; Inborn error of metabolism (Kelley, R.I. (220) 157)

Maternal plasma

Cigarette-smoking; Birthweight; Fluorescent lipid peroxidation products; Cord plasma (Pré, J. (215) 221)

Matrix metalloproteinase 2

Sandwich enzyme immunoassay; Tissue inhibitor of metalloproteinase 2; Monoclonal antibody (Fujimoto, N. (221) 91)

Measurement procedure

Analytical quality goals; Clinical quality specifications; Quality specifications for clinical laboratories; Quality assurance; Transferability of clinical laboratory results (Groth, T. (222) 129)

Meconium

Microheterogeneity; α_1 -Antitrypsin; Serum; Cystic fibrosis; Immunoaffinoelectrophoresis (Duthel, S. (215) 173)

Medical informatics computing methodologies

Decision support systems; Knowledge bases; Clinical laboratory information systems; Interoperability; Cooperative architectures (Boran, G.P. (222) 23)

Medium chain fatty acids

Medium chain triglycerides; Gas-liquid chromatography; *n*-Octanoic acid; *n*-Decanoic acid (Mingrone, G. (214) 21)

Medium chain triglycerides

Medium chain fatty acids; Gas-liquid chromatography; *n*-Octanoic acid; *n*-Decanoic acid (Mingrone, G. (214) 21)

Medium-chain acyl-CoA dehydrogenase deficiency

Mutation 985-G; PCR; Two-stage; *NcoI* digestion (Nagao, M. (220) 165)

Membrane-bound

Prostasomes; Seminal plasma; Human; 5'-Nucleotidase (Fabiani, R. (216) 175)

Meningitis

Acetylcholinesterase; Butyrylcholinesterase; Cerebrospinal fluid; Hydrocephaly; Ventriculitis (Tornel, P.L. (214) 219)

Meningoencephalitis

Isoelectric focusing; IgM; IgA; Cerebrospinal fluid; Neuroborreliosis (Kaiser, R. (216) 39)

Metabolic disorders

Anhydrides of argininosuccinate; Argininosuccinic aciduria; Nuclear magnetic resonance; Urea cycle (Burns, S.P. (221) 1)

Metabolic rate

5,6-Dihydrouridine; *N*⁶-threoninocarbonyladenine; tRNA degradation; Man; Rat (Topp, H. (218) 73)

Metabolites

Very low density lipoprotein; Diabetes mellitus; Lipoprotein lipase (Saheki, S. (217) 105)

Methotrexate

2,4-Diamino-7-hydroxy-pteridines; Leukemia; Cerebrospinal fluid (Dhondt, J.L. (220) 189)

2,4-Diamino-7-hydroxy-pteridines; Leukemia; Plasma; Cerebrospinal fluid (Dhondt, J.L. (220) 189)

1-Methyladenosine

Modified nucleosides; Pseudouridine; Urinary excretion patterns; Healthy individuals (Itoh, K. (217) 221)

3-Methylglutaconic acid

Stable isotope dilution; Mass spectrometry; Inborn error of metabolism (Kelley, R.I. (220) 157)

3-O-Methyl-D-glucose

Intestinal permeability; Rhamnose; Xylase; Lactulose; HPLC determination (Sørensen, S.H. (221) 115)

Mevalonate kinase deficiency

Bile acid; Chenodeoxycholic acid; Cholic acid; Gas-chromatography-mass spectrometry; Stable isotope; Cholesterol (Gibson, K.M. (217) 217)

Mg²⁺

Microcalorimetry; Human erythrocytes; Ca-ionophore; ATP; Lactate (Engström, I. (219) 113)

Microalbumin

Cholesterol; Triglyceride; Non-insulin-dependent diabetes mellitus (Shimizu, H. (221) 191)

Microcalorimetry

Human erythrocytes; Ca-ionophore; ATP; Lactate; Mg²⁺ (Engström, I. (219) 113)

 β_2 -Microglobulin amyloidosis

Ubiquitin; Dialysis patients; Amyloid enhancing factor; Plasma concentration (Okada, M. (220) 135)

Microheterogeneity

α_1 -Antitrypsin; Serum; Meconium; Cystic fibrosis; Immunoaffinoelectrophoresis (Duthel, S. (215) 173)

Microsomes

Myometrium; P450IA1; Gel-filtration; Differential centrifugation (Lamminen, S. (214) 93)

Mineral elements

Bone; Teeth; Atomic absorption spectrometry; Digestion procedure (Gil, F. (221) 23)

Minimal residual disease (MRD)

Polymerase chain reaction (PCR); Leukemia (Bartram, C.R. (217) 75)

Mixing technique

Blood oxygen saturation (Clark, D.J. (219) 189)

Mn-SOD

CuZn-SOD; ELISA; Strenuous exercise; Serum (Ohno, H. (215) 213)

Modified lipoprotein

Low density lipoprotein (LDL); Sialic acid; Atherosclerosis (Ruelland, A. (221) 127)

Modified nucleosides

Pseudouridine; 1-Methyladenosine; Urinary excretion patterns; Healthy individuals (Itoh, K. (217) 221)

Molecular testing

DNA probes; Polymerase chain reaction (PCR); Genetic testing (Garrett, C.T. (217) 85)

Molecular weight

Serum arylesterase; Monoclonal antibody; Specific substrate; Paraaxon (Tanaka-Kawai, H. (215) 127)

Monoacylglycerol

Diacylglycerol; Triacylglycerol; Heparin; Lipoprotein lipase; Plasma (Fielding, B.A. (216) 167)

Monoclonal antibodies

Fibronectin; Fragments; Urine; Cancer patients (Katayama, M. (217) 115)

Sandwich enzyme immunoassay; Matrix metalloproteinase 2; Tissue inhibitor of metalloproteinase 2 (Fujimoto, N. (221) 91)

Serum arylesterase; Specific substrate; Molecular weight; Paraoxon (Tanaka-Kawai, H. (215) 127)

Tissue inhibitor of metalloproteinases-2; Sandwich enzyme immunoassay (Fujimoto, N. (220) 31)

Interstitial collagenase; Sandwich enzyme immunoassay; Tissue inhibitors of metalloproteinases; (Zhang, J. (219) 1)

Monocytes

Fructose-1,6-diphosphatase deficiency; Lymphocytes; Calcitriol; Tissue culture (Kikawa, Y. (215) 81)

LDH isoenzymes; Blood cells; Histiocytosis X; lymphocytes (Perlino, E. (223) 83)

mRNA

Acute intermittent porphyria; Porphyria; Porphyria variegata; Hereditary coproporphyria; Porphobilinogen deaminase; Heme synthesis; Alcohol; Drugs; Estrogen; Progesterone; Gene; Chromosome; Mutation (Hindmarsh, J.T. (217) 29)

Mucin

Gastric juice; Ethanol precipitation method; Gastric ulcer (Azuumi, Y. (221) 219)

Tumour-associated antigen; Normal range; CASA (McGuckin, M.A. (214) 139)

Mucopolysaccharidoses

Analysis; Urine; Glycosaminoglycans; Electrophoresis (Piraud, M. (221) 171)

Multiple sclerosis

Adenosine deaminase; Erythrocytes (Kopff, M. (214) 97)

Multiplicity

Deoxyribonuclease; Human semen; Purification; Prostate (Yasuda, T. (218) 5)

Muscle

Autoantibodies; Autoantigen; Age; Lauryl-sulphate, sodium salt-polyacrylamide-gel-electrophoresis; Western blot (Zimmermann, C.W. (218) 29)

Mutation

Mediumchain acyl-CoA dehydrogenase deficiency; 985-G; PCR; Two-stage; *NcoI* digestion (Nagao, M. (220) 165)

Acute intermittent porphyria; Porphyria; Porphyria variegata; Hereditary coproporphyria; Porphobilinogen deaminase; Heme synthesis; Alcohol; Drugs; Estrogen; Progesterone; Gene; Chromosome; mRNA (Hindmarsh, J.T. (217) 29)

Breast cancer; P53 gene; NM23 gene (Callahan, R. (217) 63)

Mutation analysis

Cystic fibrosis transmembrane conductance regulator (CFTR); Cystic fibrosis; Genetic disease; Genotype-phenotype association (Tümler, B. (217) 23)

myc oncogenes

Amplification; Transcriptional regulation (Koskinen, P.J. (217) 57)

Myocardial infarction

Streptokinase; Antibodies; Immunoassay; ELISA (Bom, V.J.J. (218) 121)

Myometrium

Microsomes; P450IA1; Gel-filtration; Differential centrifugation (Lamminen, S. (214) 93)

N

N-myc

t(14; 18) chromosomal rearrangement; Follicular lymphoma; *c-erbB-2*; Mammary carcinoma; Neuroblastoma; *K-ras*; Pulmonary adenocarcinoma; Colorectal carcinoma (Werner, M. (217) 39)

NcoI digestion

Medium-chain acyl-CoA dehydrogenase deficiency; Mutation; 985-G; PCR; Two-stage (Nagao, M. (220) 165)

Necrosis index

Enzymes; Liver transplantation; Acute rejection (Gozzo, M.L. (214) 175)

Neonatal screening

Maple syrup urine disease; Leucine dehydrogenase; Enzymatic analysis; Branched-chain amino acids; Blood spots (Wendel, U. (219) 105)

Neonates

Lysosomal enzymes; Plasma; Twins (Goi, G. (214) 61)

Neopterin

Hyperphenylalaninemia; Biopterin; Tetrahydrobiopterin deficiency (Ponzzone, A. (216) 63)

Nephelometry

Turbidity; Nucleation; Kinetics; Calcium oxalate crystallization; Nucleation promoters (Rodgers, A.L. (220) 125)

Neuroblastoma screening

Vanillylmandelic acid; Homovanillic acid; Cancer (Mathieu, P. (220) 229)

Neuroblastoma

t(14; 18) chromosomal rearrangement; Follicular lymphoma; *c-erbB-2*; Mammary carcinoma; *N-myc*; *K-ras*; Pulmonary adenocarcinoma; Colorectal carcinoma (Werner, M. (217) 39)

Neuroborreliosis

Isoelectric focusing; IgM; IgA; Cerebrospinal fluid; Meningoencephalitis (Kaiser, R. (216) 39)

Neurological diseases

Vitamin C; Ascorbate; Uric acid; Cerebrospinal fluid (CSF); Serum; CSF flow; Blood-CSF barrier function (Reiber, H. (217) 163)

NM23 gene

Breast cancer; Mutations; P53 gene (Callahan, R. (217) 63)

Non-enzymatic glycosylation

Diabetes; Glycation; Impairment of immunoreactivity (Sasaki, Y. (220) 119)

Non-HDL cholesterol

Apo B; LDL cholesterol; VLDL cholesterol; HDL cholesterol; Triglycerides (Levinson, S.S. (223) 31)

Non-insulin-dependent diabetes mellitus

Microalbumin; cholesterol; Triglyceride (Shimizu, H. (221) 191)

Normal range

Mucin; Tumour-associated antigen; CASA (McGuckin, M.A. (214) 139)

Normolipidemic subjects

Gemfibrozil; High density lipoprotein; Lipoprotein lipase; Hepatic lipase (Horsmans, Y. (218) 223)

Northern blot

Hormone-sensitive lipase; Adipose tissue; Ribonuclease protection assay (Frayn, K.N. (216) 183)

Nuclear magnetic resonance

Anhydrides of argininosuccinate; Argininosuccinic aciduria; Metabolic disorders; Urea cycle (Burns, S.P. (221) 1)

Nucleases

Uraemia; Lymphocyte cells; Lymphocytic Mg^{2+} , Mn^{2+} ions concentration (Adamiec, R. (221) 15)

Nucleation promoters

Turbidity; Nephelometry; Nucleation; Kinetics; Calcium oxalate crystallization (Rodgers, A.L. (220) 125)

Nucleation

Turbidity; Nephelometry; Kinetics; Calcium oxalate crystallization; Nucleation promoters (Rodgers, A.L. (220) 125)

5'-Nucleotidase

Prostasomes; Seminal plasma; Human; Membrane-bound (Fabiani, R. (216) 175)

O

Object-orientation

Clinical laboratory; Computing; Object (Solberg, H.E. (222) 3)

Object-oriented design

Laboratory information system; Graphical user interface; Client-server architecture; Ethernet network (Wells, I.G. (222) 13)

Object

Clinical laboratory; Computing; Object-orientation (Solberg, H.E. (222) 3)

Obstructive jaundice

Lipid peroxidation; Cholelithiasis (Tsai, L.-Y. (215) 41)

Occult blood

Alpha-1-antitrypsin; Protein-losing enteropathies (Moran, A. (217) 153)

***n*-Octanoic acid**

Medium chain triglycerides; Medium chain fatty acids; Gas-liquid chromatography; *n*-Decanoic acid (Mingrone, G. (214) 21)

Oleoyl-CoA

Alcohol; ACAT inhibitors; Acyl-CoA hydrolase; Ethyl oleate; Human liver (Smith, J.L. (215) 233)

Oligosaccharide

Alpha-1-acid glycoprotein; Inflammation; Glycoform; Rats (Venembre, P.C. (221) 59)

OPENLABS

Test requests; Screening; Expert systems; Electronic data interchange (Hasman, A. (222) 49)

Organic acids

Peroxisomal disorders (Pitt, J.J. (223) 23)

Gas chromatography; Thin-layer chromatography (Lee, B.Y. (218) 215)

Osteosarcoma cell

Urokinase-type plasminogen activator (u-PA); Urokinase-type plasminogen activator receptor (u-PAR); Plasminogen activator inhibitor-I (PAI-I); Bone resorption (Nonaka, T. (223) 19)

Osteosarcoma

Alkaline phosphatase; Transcription levels; Isoenzyme (Stinson, R.A. (221) 105)

 β -Oxidation disorders

Liver needle biopsy; Alcoholic fatty liver (Eaton, S. (220) 219)

Oxidative metabolism

Asthma; Lipid peroxidation; Zinc; Selenium (Malvy, J.-M.D. (218) 117)

Oxidatively modified low density lipoprotein

Elisa; Lipoprotein(a); Quantitation (Wang, H. (218) 97)

Oxygen radicals

Rat; Inflammation; Carrageenan-induced granuloma; Antioxidants; Lipid peroxidation; Iron (Muntané, J. (214) 185)

P450IA1

Microsomes; Myometrium; Gel-filtration; Differential centrifugation (Lamminen, S. (214) 93)

P53 gene

Breast cancer; Mutations; NM23 gene (Callahan, R. (217) 63)

Pancreatic elastase 1

Autoantibody; Radioimmunoassay (Asada, H. (218) 17)

Paraoxon

Serum arylesterase; Monoclonal antibody; Specific substrate; Molecular weight (Tanaka-Kawai, H. (215) 127)

Paraprotein

IgD; IgD myeloma; Two-dimensional electrophoresis (Stulík, J. (218) 148)

Parathyroid hormone

Primary hyperparathyroidism; (Bergenfels, A. (219) 67)

Partitioning

Alkaline phosphatase; Glycan phosphatidylinositol anchors; Glycan phosphatidylinositol-specific phospholipase D; Gradient gel electrophoresis (Raymond, F.D. (215) 139)

Patent ductus arteriosus

Platelet activating factor; Chronic lung disease; Bronchopulmonary dysplasia; Tracheal aspirate; Low birth weight infant (Koyama, N. (215) 73)

PCR

Medium-chain acyl-CoA dehydrogenase deficiency; Mutation; 985-G; Two-stage; *NcoI* digestion (Nagao, M. (220) 165)

Peptide hormones

Calcitonin; Radioimmunoassay; Hormones; Peptides; Regulatory peptides (Schifter, S. (215) 99)

Peptides

Calcitonin; Radioimmunoassay; Hormones; Peptide hormones; Regulatory peptides (Schifter, S. (215) 99)

Peroxisomal disease fibroblasts

Eicosanoids; Arachidonic acid metabolism; Gas chromatography/mass spectrometry (Malle, E. (217) 205)

Peroxisomal disorders

Organic acids (Pitt, J.J. (223) 23)

L-Phenylalanine

Phenylketonuria; Dietary monitoring; Phenylalanine dehydrogenase; Autoanalysis; Chemistry; Clinical (Taylor, R.P. (218) 207)

Phenylalanine dehydrogenase

Phenylketonuria; Dietary monitoring; L-Phenylalanine; Autoanalysis; Chemistry; Clinical (Taylor, R.P. (218) 207)

Phenylalanine hydroxylase gene

Phenylketonuria; Intellectual outcome; Genotyping (Trefz, F.K. (217) 15)

Phenylketonuria

Dietary monitoring; L-Phenylalanine; Phenylalanine dehydrogenase; Autoanalysis; Chemistry; Clinical (Taylor, R.P. (218) 207)

Intellectual outcome; Phenylalanine hydroxylase gene; Genotyping (Trefz, F.K. (217) 15)

Phospholipid classes

Erythrocyte membranes; Rat; Extraction; Fatty acids; Solvent (Eder, K. (219) 93)

Phosphorylation

Insulin-like growth factor-binding protein; Pregnancy; Amniotic fluid; Decidua; (Koistinen, R. (215) 189)

O-Phthalaldehyde

Glutamine; Chromatography; Plasma; Cerebrospinal fluid (Teerlink, T. (218) 159)

PK deficiency

Band 3 protein; G6PD deficiency; Hereditary spherocytosis (human erythrocytes) (Giuliani, A. (220) 211)

PKC inhibition

Bilirubin toxicity; Protein phosphorylation; Fibroblasts (Amit, Y. (223) 102)

Placenta

Iron; Transferrin receptor; Cytotrophoblast (Starreveld, J.S. (220) 47)

Plasma concentration

Ubiquitin; β_2 -Microglobulin amyloidosis; Dialysis patients; Amyloid enhancing factor (Okada, M. (220) 135)

Plasma levels

N-Acetyl- β -D-glucosaminidase; Isoenzymes; Routine chromatofocusing procedure; Distribution in a general population (Goi, G. (221) 47)

Plasma mevalonate

Serum lathosterol; Whole body cholesterol synthesis; Simvastatin (De Cuyper, I. (219) 123)

Plasma water

Whole blood water; Erythrocyte water; Hematological and clinicochemical parameters (Lijnema, T.H. (214) 129)

Plasma

Monoacylglycerol; Diacylglycerol; Triacylglycerol; Heparin; Lipoprotein lipase (Fielding, B.A. (216) 167)

Alanine-aminopeptidase; Leucine-aminopeptidase; Aminopeptidase-N; Serum; gp150; CD13 (Favaloro, E.J. (220) 81)

HPLC; Fluorometry; Serotonin; 5-Hydroxyindole-3-acetic acid; 5-Hydroxytryptophan; Tryptophan; Urine (Kema, I.P. (221) 143)

Lysosomal enzymes; Neonates; Twins (Goi, G. (214) 61)

Glutamine; *O*-Phthalaldehyde; Chromatography; Cerebrospinal fluid (Teerlink, T. (218) 159)

Inductively coupled plasma mass spectrometry (ICPMS); Lead; Bismuth; Thallium; Urine (Mauras, Y. (218) 201)

Plasminogen activator inhibitor-I (PAI-I)

Urokinase-type plasminogen activator (u-PA);

Urokinase-type plasminogen activator receptor (u-PAR); Osteosarcoma cell; Bone resorption (Nonaka, T. (223) 129)

Plasminogen

Lipoprotein(a); Enzyme immunoassay; Immunoradiometric assay; Atherosclerosis (März, W. (214) 153)

Lipoprotein(a); Lp(a) assays (Baldo-Enzi, G. (218) 83)

Plasmodium vivax

Malaria; Glutathione; Glutathione peroxidase; Glutathione reductase; Glucose-6-phosphate dehydrogenase (Mathews, S.T. (219) 159)

Platelet activating factor

Patent ductus arteriosus; Chronic lung disease; Bronchopulmonary dysplasia; Tracheal aspirate; Low birth weight infant (Koyama, N. (215) 73)

Platelets

HPLC; Fluorometry; Serotonin; 5-Hydroxyl-indole-3-acetic acid; 5-Hydroxytryptophan; Tryptophan; Urine; Plasma; Tissue; Carcinoid; Diurnal variation; Diet (Kema, I.P. (221) 143)

Platelet-derived endothelial cell growth factor

Rheumatoid arthritis; Synovial fluids; Angiogenesis; Enzyme immunoassay; Gliostatin (Asai, K. (218) 1)

Poisoning

Digoxin; Fab fragments (Bizzaro, N. (217) 225)

Polycystic kidney disease

Trehalase isozymes; Fetal pathologies; Prenatal diagnosis; Anal imperforation; Amniotic fluid (Elsiger, M.-A. (216) 91)

Polycystic ovary syndrome

Testosterone; SHBG; Coated tube radioimmunoassay; Clinical evaluation (Holownia, P. (214) 31)

Polymerase chain reaction using allele-specific oligonucleotide

Apolipoprotein E; Genotype/phenotype; Amplification refractory mutation system analysis; Diabetes mellitus (Stavljenic-Rukavina, A. (216) 191)

Polymerase chain reaction (PCR)

DNA probes; Genetic testing; Molecular testing (Garrett, C.T. (217) 85)

Minimal residual disease (MRD); Leukemia (Bartram, C.R. (217) 75)

Polymorphonuclear leukocytes

Chronic granulomatous disease; Tetrazolium salts; Respiratory burst; Free oxygen radicals; Densitometry (Iacobini, M. (221) 197)

Porphobilinogen deaminase

Acute intermittent porphyria; Porphyria; Porphyria variegata; Hereditary coproporphyria; Heme synthesis; Alcohol; Drugs; Estrogen; Progesterone; Gene; Chromosome; mRNA; Mutation (Hindmarsh, J.T. (217) 29)

Porphyria variegata

Acute intermittent porphyria; Porphyria; Hereditary coproporphyria; Porphobilinogen deaminase; Heme synthesis; Alcohol; Drugs; Estrogen; Progesterone; Gene; Chromosome; mRNA; Mutation (Hindmarsh, J.T. (217) 29)

Porphyria

Acute intermittent porphyria; Porphyria variegata; Hereditary coproporphyria; Porphobilinogen deaminase; Heme synthesis; Alcohol; Drugs; Estrogen; Progesterone; Gene; Chromosome; mRNA; Mutation (Hindmarsh, J.T. (217) 29)

Possibility theory

Laboratory computer; Knowledge-based system; Expert system; Bayes' theorem; Interval arithmetics; Set theory; Syntax analysis; Probability theory (Pohl, B. (222) 85)

Postprandial lipemia

Vitamin A; Fat-loading test; Gender; (Heller, F.R. (219) 167)

Post-analytical functionalities

Clinical laboratory services; Primary care; Intensive care; Interpretative reporting; Alarms generation (Nykänen, P. (222) 37)

Pregnancy

Adenosine; Inosine; Hypoxanthine; Xanthine; Uterine smooth muscle; Skeletal striated muscle (Ronquist, G. (223) 93)

Insulin binding; Insulin receptors; Erythrocytes; Gestational diabetes; Diabetes and pregnancy (Schmon, B. (221) 33)

Insulin-like growth factor-binding protein; Phosphorylation; Amniotic fluid; Decidua (Koistinen, R. (215) 189)

Prenatal diagnosis

Trehalase isozymes; Fetal pathologies; Anal imperforation; Polycystic kidney disease; Amniotic fluid; (Elsiger, M.-A. (216) 91)

Primary care

Post-analytical functionalities; Clinical laboratory services; Intensive care; Interpretative reporting; Alarms generation (Nykänen, P. (222) 37)

Primary health care

Electronic data interchange; Computer communication networks; Clinical laboratory information systems (Bergvin, L. (222) 141)

Primary hyperparathyroidism

Parathyroid hormone; (Bergenfelz, A. (219) 67)

Probability theory

Laboratory computer; Knowledge-based system; Expert system; Bayes' theorem; Interval arithmetics; Set theory; Syntax analysis; Possibility theory (Pohl, B. (222) 85)

Production management

Dynamic test scheduling; Ethics; Laboratory Information System; Quality assurance; Telecommunication (Brender, J. (222) 57)

Progesterone

Acute intermittent porphyria; Porphyria; Porphyria variegata; Hereditary coproporphyria; Porphobilinogen deaminase; Heme synthesis; Alcohol; Drugs; Estrogen; Gene; Chromosome; mRNA; Mutation (Hindmarsh, J.T. (217) 29)

Proline

Hydroxyproline; Urine; Gas chromatography; Flame photometric detection; *N*-Dimethylthiophosphoryl methyl ester derivatives (Kataoka, H. (214) 13)

Prostasomes

Seminal plasma; Human; 5'-Nucleotidase; Membrane-bound (Fabiani, R. (216) 175)

Prostate

Deoxyribonuclease; Human semen; Purification; Multiplicity (Yasuda, T. (218) 5)

Prostatic cancer

Diethylstilbestrol; Radioimmunoassay; Radioiodination; Steroids (Economou, E.V. (216) 81)

Protein assay

Reverse biuret method; Copper; Bathocuprine; Chelate reaction (Matsushita, M. (216) 103)

Protein methods

Bradford; Collagen; Sodium dodecyl sulfate (SDS) (López, J.M. (220) 91)

Protein phosphorylation

Bilirubin toxicity; PKC inhibition; Fibroblasts (Amit, Y. (223) 102)

Protein-losing enteropathies

Alpha-1-antitrypsin; Occult blood (Moran, A. (217) 153)

Pseudouridine

Modified nucleosides; 1-Methyladenosine; Urinary excretion patterns; Healthy individuals (Itoh, K. (217) 221)

Psychotic patients

Immunoglobulin G; Dopamine; Cerebrospinal fluid (Bergquist, J. (217) 129)

Pulmonary adenocarcinoma

t(14; 18) chromosomal rearrangement; Follicular lymphoma; *c-erbB-2*; Mammary carcinoma; *N-myc*; Neuroblastoma; *K-ras*; Colorectal carcinoma (Werner, M. (217) 39)

Purification

Deoxyribonuclease; Human semen; Multiplicity; Prostate (Yasuda, T. (218) 5)

Purines

Pyridine coenzymes; Human erythrocytes; Inherited disorders; HPLC; Sample preparation (Micheli, V. (220) 1)

Pyridine coenzymes

Purines; Human erythrocytes; Inherited disorders; HPLC; Sample preparation (Micheli, V. (220) 1)

Q

Quality assurance

Analytical quality goals; Clinical quality specifications; Quality specifications for clinical laboratories; Measurement procedure; Transferability of clinical laboratory results (Groth, T. (222) 129)

Dynamic test scheduling; Ethics; Laboratory Information System; Production management; Telecommunication (Brender, J. (222) 57)

Quality specifications for clinical laboratories

Analytical quality goals; Clinical quality specifications; Quality assurance; Measurement procedure; Transferability of clinical laboratory results (Groth, T. (222) 129)

Quantitation

Elisa; Lipoprotein(a); Oxidatively modified low density lipoprotein (Wang, H. (218) 97)

R

Radioimmunoassay

Diethylstilbestrol; Prostatic cancer; Radioiodination; Steroids (Economou, E.V. (216) 81)

Calcitonin; Hormones; Peptides; Peptide hormones; Regulatory peptides (Schifter, S. (215) 99)

Pancreatic elastase 1; Autoantibody (Asada, H. (218) 17)

Glutathione peroxidase; Selenium; (Huang, W. (219) 139)

Radioiodination

Diethylstilbestrol; Prostatic cancer; Radioimmunoassay; Steroids (Economou, E.V. (216) 81)

Ratio CK-MB mass vs. activity

CK-MB activity; CK-MB mass concentration; Acute myocardial infarction (Baum, H.H.E. (219) 183)

Rats

Alpha-1-acid glycoprotein; Inflammation; Oligosaccharide; Glycoform (Venembre, P.C. (221) 59)

Ethanol; Free radicals; Lipid peroxidation; (Coudray, C. (219) 35)

Inflammation; Carrageenan-induced granuloma; Antioxidants; Lipid peroxidation; Oxygen radicals (Muntané, J. (214) 185)

Inflammation; Carrageenan-induced granuloma; Antioxidants; Iron; Oxygen radicals (Muntané, J. (214) 185)

Inflammation; Carrageenan-induced granuloma; Antioxidants; Lipid peroxidation; Iron; Oxygen radicals (Muntané, J. (214) 185)

5,6-Dihydrouridine; *N*⁶-threoninocarbonyladenine; tRNA degradation; Man; Metabolic rate (Topp, H. (218) 73)

Phospholipid classes; Erythrocyte membranes; Extraction; Fatty acids; Solvent (Eder, K. (219) 93)

Reactive oxygen

Cytosolic calcium; Endothelial cells; Antioxidants (David, M. (223) 1)

Recessive X-linked ichthyosis

Steroid sulfatase; High performance liquid chromatography; Estrone sulfate; Estrone (Minoru, M. (215) 165)

Reference values

Standards; Software; User-computer interface (Kenny, D. (222) 19)

Regulatory peptides

Calcitonin; Radioimmunoassay; Hormones; Peptides; Peptide hormones (Schifter, S. (215) 99)

Remnant-like particles (RLP)

RLP-cholesterol; VLPL remnant; Chylomicron remnant; Familial dysbetalipoproteinemia; Coronary heart disease (Nakajima, K. (223) 53)

Renal cyst fluid

Epidermal growth factor; Insulin-like growth factor-I; Transforming growth factor- β ; Interleukin-6 (Taide, M. (217) 199)

Respiratory burst

Chronic granulomatous disease; Tetrazolium salts; Free oxygen radicals; Densitometry; Polymorphonuclear leukocytes (Iacobini, M. (221) 197)

Restriction fragment length polymorphism

Apo B gene; Hypercholesterolaemia (Series, J.J. (215) 89)

Reverse biuret method

Protein assay; Copper; Bathocuproine; Chelate reaction (Matsushita, M. (216) 103)

Reversed-phase HPLC

Histidinemia; Histidase activity; Urocanic acid; Human fingernails (Fujitaka, M. (215) 227)

Rhamnose

Intestinal permeability; 3-*O*-Methyl-D-glucose; Xylase; Lactulose; HPLC determination (Sørensen, S.H. (221) 115)

Rheumatoid arthritis

Fucose; Galactose; Glycosylation; Haptoglobin (Thompson, S. (220) 107)

Serum trehalase; Acute phase reactants (Yoshida, K. (215) 123)

Synovial fluids; Angiogenesis; Enzyme im-

munoassay; Gliostatin; Platelet-derived endothelial cell growth factor (Asai, K. (218) 1)

Ribonuclease protection assay

Hormone-sensitive lipase; Adipose tissue; Northern blot (Frayn, K.N. (216) 183)

RLP-cholesterol

Remnant-like particles (RLP); VLDL remnant; Chylomicron remnant; Familial dysbetalipoproteinemia; Coronary heart disease (Nakajima, K. (223) 53)

RNA turnover

Urinary modified nucleosides; Biological marker;

Half-life of RNA; Cancer; AIDS (Nakano, K. (218) 169)

Routine chromatofocusing procedure

N-Acetyl- β -D-glucosaminidase; Isoenzymes; Plasma levels; Distribution in a general population (Goi, G. (221) 47)

Rupture of fetal membranes

Insulin-like growth factor binding protein-1; Fetal fibronectin; Amniotic fluid (Rutanen, E.-M. (214) 73)

S

7S and triple helix

Serum type IV collagen; Enzyme immunoassay; Anti-HCV positive chronic liver diseases (Matsuzaki, Y. (221) 209)

Salicylate

Free thyroxine; Somatic illness; Heparin (Faber, J. (223) 159)

Salivary gland disease

Alcohol misuse; Alcoholic liver disease; Amylase; Iso-enzymes; Cirrhosis (Deenmamode, J.M.J. (223) 169)

Sample preparation

Pyridine coenzymes; Purines; Human erythrocytes; Inherited disorders; HPLC (Micheli, V. (220) 1)

Sandwich enzyme immunoassay

Matrix metalloproteinase 2; Tissue inhibitor of metalloproteinase 2; Monoclonal antibody (Fujimoto, N. (221) 91)

Tissue inhibitor of metalloproteinases-2; Monoclonal antibody (Fujimoto, N. (220) 31)

Interstitial collagenase; Monoclonal antibody; Tissue inhibitors of metalloproteinases; (Zhang, J. (219) 1)

Scintillation proximity assay

Extrelut-1-minicolumns; Sep-Pak silica cartridges; Vitamin D metabolites; Calcitriol (Wildermuth, S. (220) 61)

Screening

Test requests; Expert systems; Electronic data interchange; OPENLABS (Hasman, A. (222) 49)

Secretions

IgA; Single radial immunodiffusion; Electroimmunodiffusion (Meillet, D. (214) 235)

Secretory IgA

Lectin; ELISA; IgA subclass; Affinity chromatography (Cullina, M.J. (216) 23)

Bronchoalveolar lavage fluid; Serum IgA; Enzyme immunoassay methods; Interstitial lung disease (Sato, T. (220) 145)

Selenium

Asthma; Oxidative metabolism; Lipid peroxidation; Zinc (Malvy, J.-M.D. (218) 117)

Glutathione peroxidase; Radioimmunoassay; (Huang, W. (219) 139)

Seminal plasma

Prostasomes; Human; 5'-Nucleotidase; Membrane-bound (Fabiani, R. (216) 175)

Sep-Pak silica cartridges

Extrelut-1-minicolumns; Scintillation proximity assay; Vitamin D metabolites; Calcitriol (Wildermuth, S. (220) 61)

Serological assay

Data reduction; Lyme testing; Computer programs; Statistical evaluation of assays (Sorensen, K. (214) 55)

Serotonin

HPLC; Fluorometry; 5-Hydroxyindole-3-acetic acid; 5-Hydroxytryptophan; Tryptophan; Urine; Plasma (Kema, I.P. (221) 143)

Serum arylesterase

Monoclonal antibody; Specific substrate; Molecular weight; Paraoxon (Tanaka-Kawai, H. (215) 127)

Serum cholesterol

Breast cancer; Tamoxifen; Serum lipoproteins; Cardiovascular risk (Dnistrian, A.M. (223) 43)

Serum hyaluronic acid

Healthy infants and children; Hepatobiliary disease of infancy (Trivedi, P. (215) 29)

Serum IgA

Bronchoalveolar lavage fluid; Secretory IgA; Enzyme immunoassay methods; Interstitial lung disease (Sato, T. (220) 145)

Serum lathosterol

Whole body cholesterol synthesis; Plasma mevalonate; Simvastatin (De Cuyper, I. (219) 123)

Serum lipoproteins

Breast cancer; Tamoxifen; Serum cholesterol; Cardiovascular risk (Dnistrian, A.M. (223) 43)

Serum thyrothropin

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- 2 Akatsu T. Artificial heart: total replacement and partial support. Amsterdam: Elsevier/North-Holland, 1980;217–240.
- 3 Winder AF. Factors influencing the variable expression of xanthelasmata and corneal arcus in familial hypercholesterolaemia. In: Bergsma D, Berman ER, eds. Genetic disease of the eye. New York: A.R. Lis, 1982;449–462.

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